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**Department of Defense
Fiscal Year (FY) 2024 Budget Estimates**

March 2023



Army

Justification Book Volume 1 of 1

Procurement of Ammunition, Army

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Cost Statement

The following Justification Books were prepared at a cost of \$474,495.00: Aircraft (ACFT), Missile (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 - Tactical & Support Vehicles, Other Procurement Army (OPA) 2 – Communications & Electronics, Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 5C, Budget Activity 6, Budget Activity 7, and Budget Activity 8.

PROCUREMENT OF AMMUNITION, ARMY

Appropriation Language

For construction, procurement, production, modification, and modernization of ammunition, equipment, spare parts and accessories therefore; specialized equipment and training devices; expansion of public and private plants, including ammunition facilities, authorized by Sec 2854 of Title 10, United States Code, and land necessary therefore, for the foregoing purposes, and such lands and interest therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, \$2,967,578,000 in fiscal year 2024 to remain available for obligation until September 30, 2026.

Fiscal Year (FY) 2024 Overseas Operations Costs funding accounted for in the Base budget total \$30,344,000.

Combat or direct combat support expenses that discontinue once combat operations end at major contingency locations \$23,979,000.

In-theater and in-CONUS expenses that remain after combat operations cease and have been previously funded in OCO \$6,365,000.

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Appropriation 2034A: Procurement of Ammunition, Army

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Appropriation 2034A: Procurement of Ammunition, Army

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Grenades, All Types	4582E34000	26	01	47.....	Volume 1 - 633
Industrial Facilities	0572EP1000	36	02	10.....	Volume 1 - 748
Items Less Than \$5 Million (AMMO)	2624EA0055	32	01	50.....	Volume 1 - 723
Mines & Clearing Charges, All Types	0442EA0800	20	01	43.....	Volume 1 - 490
NEXT GENERATION SQUAD WEAPON AMMUNITION	1065E06001	3	01	30.....	Volume 1 - 82
Non-Lethal Ammunition, All Types	1430E91901	31	01	50.....	Volume 1 - 722
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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition							P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A					Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,926.683	71.594	53.206	90.853	-	90.853	101.469	118.563	118.833	131.477	-	3,612.678
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,926.683	71.594	53.206	90.853	-	90.853	101.469	118.563	118.833	131.477	-	3,612.678
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,926.683	71.594	53.206	90.853	-	90.853	101.469	118.563	118.833	131.477	-	3,612.678
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description: This budget line includes 5.56MM ALL TYPES.</p> <p>(E01100) 5.56mm Blank, M200, Single Round cartridge consists of a brass cartridge case with primer and propellant sealed with a rosette crimp. This cartridge is used for training and ceremonial purposes without blank firing attachment (BFA) and in M16A2/A4 Series Rifles and M4 Carbine fitted with BFA. This item is Code A, approved for service use.</p> <p>(E01101) 5.56mm Blank, M200 Linked f/SAW cartridge consists of a brass cartridge case with primer and propellant sealed with a rosette crimp. This cartridge is used in the M249 Squad Automatic Weapon (SAW) Machine Gun with a Blank Firing Adapter, and it is designed to simulate firing during training exercises. The M27 metallic link is merely a scaled-down version of the 7.62mm M13 one-piece link. This item is Code A, approved for service use.</p> <p>(E04601) 5.56mm Ball, M855 f/M16A2 Single Ball Cartridge has a steel core and a lead slug surrounded by a copper jacket. The cartridge is used in M16A2/A4 Rifles and M4/M4 Carbines. This cartridge is packed in 10 round clips with bandoleers in standard military can pack. This item is Code A, approved for service use.</p> <p>(E04603) 5.56MM Ball, M855 Linked f/SAW M855A1 Ball Cartridge is linked with the M27 link for use in the M249 Machine Gun. The M855A1 Ball Cartridge has a steel core and a lead slug surrounded by a copper jacket. This item is Code A, approved for service use.</p> <p>(E04607) 5.56mm M855A1 Ball Cartridges and M856A1 Tracer Cartridges Enhanced Performance Round (EPR) are linked in a 4-Ball/1-Tracer configuration with the M27 link for use in the M249 Machine Gun. The M855A1 Ball Cartridge has a steel penetrator and non-lead slug surrounded by a copper jacket. The M856A1 Tracer Cartridge is lead free and provides a visible red light signature through its trajectory. The M856A1 Tracer Cartridge provides visible signature of fire out to 900 meters. This item is Code A, approved for service use.</p> <p>(E04608) 5.56mm Tracer, M856A1 Single Round Bullet is lead free and provides a visible red light signature through its trajectory. The bullet is used in M16 and M4 Rifles/Carbines. This item is Code A, approved for service use.</p> <p>(E95200) 5.56mm, M855A1 Ball Cartridge is linked with the M27 link for use in the M249 Machine Gun. The M855A1 Ball Cartridge has a steel penetrator and non-lead slug surrounded by a copper jacket. This item is Code A, approved for service use.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E95400) 5.56mm, M855A1 Ball Cartridge has a steel penetrator and lead free slug surrounded by a copper jacket. The cartridge is used in M16A2/A4 Rifles and M4/M4A1 Carbines. This cartridge is packed in 10 round clips with bandoleers in standard military can pack. This item is Code A, approved for service use.</p> <p>(E95700) 5.56mm, M855A1 Ball Cartridge has a steel penetrator and lead-free slug surrounded by a copper jacket. The cartridge is used in M16A2/A4 Rifles and M4/M4A1 Carbines. This cartridge is packed in 10 round clips without bandoleer in standard military can pack. This item is Code A, approved for service use.</p> <p>(E96110) 5.56mm Marking Blue, M1042 is used for force-on-force training engagements. The cartridge can be fired with the existing M4 Carbine and M16A2/A3/A4 Rifles with the use of a conversion bolt. The projectile leaves a mark upon impact (similar to paintball), thus enabling after action evaluation of training scenarios. However, it differs from paintball in that it is a full, complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. This item is Code A, approved for service use.</p> <p>(E96111) 5.56mm Marking Red, M1042 is used for force-on-force training engagements. The cartridge can be fired with the existing M4 Carbine and the M16A2/A3/A4 Rifles with the use of a conversion bolt. The projectile leaves a mark upon impact (similar to paintball), thus enabling after action evaluation of training scenarios. However, it differs from paintball in that it is a full, complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. This item is Code A, approved for service use.</p> <p>(E96120) 5.56mm Marking Blue, M1071 is used for force-on-force training engagements. The cartridge can be fired with the existing M249 Squad Automatic Weapon with the use of the conversion kit. The projectile leaves a mark upon impact (similar to paintball), thus enabling after action evaluation of training scenarios. However, it differs from paintball in that it is a full, complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. In FY 2021, this item transitioned to a lead free version under the new DODIC AC42. This item is Code A, approved for service use.</p> <p>(E96121) 5.56mm Marking Red, M1071 is used for force-on-force training engagements. The cartridge can be fired with the existing M249 Squad Automatic Weapon with the use of the conversion kit. The projectile leaves a mark upon impact (similar to paintball), thus enabling after action evaluation of training scenarios. However, it differs from paintball in that it is a full, complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. This item is Code A, approved for service use.</p> <p>(E96125) 5.56mm Short Range Training M1037 clipped cartridge will be used in live fire training scenarios. The M1037 clipped cartridge permits training in adjacent training areas due to its reduced Surface Danger Zone (SDZ) and can be fired with existing M4 weapons. This cartridge is used for Military Operations/Urban Terrain (MOUT) operational training. This item is Code A, approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army							Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition					P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E01100 / CTG, 5.56mm Blank, M200, Single Round [A080]	P-5a, P-21	A		- / 561.142	- / 2.615	- / 2.109	- / 8.166	- / -	- / 8.166
P-5	E01101 / CTG, 5.56mm Blank, M200 Linked f/SAW [A075]	P-5a, P-21	A		- / 226.444	- / 5.548	- / 4.310	- / 7.476	- / -	- / 7.476
P-5	E04601 / CTG, 5.56mm Ball, M855 f/M16A2		A		- / 744.884	- / 5.496	- / -	- / -	- / -	- / -
P-5	E04603 / CTG 5.56MM BALL M855 LINKED F/SAW		A		- / 118.947	- / 0.608	- / -	- / -	- / -	- / -
P-5	E04607 / CTG, 5.56mm 4 Ball EPR, M855A1 /1 TR M856A1 Linked [AB73]	P-5a, P-21	A		- / 86.224	- / 3.303	- / 2.085	- / 14.960	- / -	- / 14.960
P-5	E04608 / CTG, 5.56mm Tracer, M856A1 Single Round [AB74]	P-5a	A		- / 10.651	- / 0.466	- / 0.838	- / 0.031	- / -	- / 0.031
P-5	E95200 / CTG, 5.56mm EPR Ball, M855A1 w/M27 Link f/SAW [AB56]	P-5a	A		- / 31.941	- / 1.221	- / 1.458	- / 4.564	- / -	- / 4.564
P-5	E95400 / CTG, 5.56mm Ball, M855A1 EPR, Clipped Mil Pack [AB57]	P-5a	A		- / 844.709	- / 6.606	- / 2.460	- / 0.500	- / -	- / 0.500
P-5	E95700 / CTG, 5.56mm Ball, M855A1 Clipped Bulk Pack [AB77]	P-5a, P-21	A		- / 235.368	- / 41.439	- / 32.841	- / 49.043	- / -	- / 49.043
P-5	E96110 / CTG, 5.56mm Marking, M1042 (Blue) [AC39]	P-5a	A		- / 26.979	- / 1.261	- / 1.995	- / 2.388	- / -	- / 2.388
P-5	E96111 / CTG, 5.56mm Marking, M1042 (Red) [AC40]	P-5a	A		- / 15.373	- / 0.645	- / 1.359	- / 0.899	- / -	- / 0.899
P-5	E96120 / CTG, 5.56mm Marking, M1071 (Blue) Linked f/SAW [AC42]	P-5a	A		- / 6.687	- / 0.049	- / 0.500	- / 0.258	- / -	- / 0.258
P-5	E96121 / CTG, 5.56mm Marking, M1071 (Red) Linked f/SAW [AC43]	P-5a	A		- / 5.428	- / -	- / 0.616	- / 0.010	- / -	- / 0.010
P-5	E96125 / Ctg, 5.56mm, Short Range Training, M1037, sngl rd [AB67]	P-5a	A		- / 11.906	- / 2.337	- / 2.635	- / 2.558	- / -	- / 2.558
P-40	Total Gross/Weapon System Cost				- / 2,926.683	- / 71.594	- / 53.206	- / 90.853	- / -	- / 90.853
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. The FY 2024 Base Budget supports the Minimum Sustaining Rates at both Lake City Army Ammunition Plant (LCAAP) as well as the Second Source facility in Oxford, MS. FY 2024 Total Base dollars in the amount of \$90.853 million supports the procurement of 185.331 million cartridges. (E01100) 5.56mm, Blank, M200, Single Round cartridge is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$8.166 million support the procurement of 30.278 million M200 Blank Cartridges. Type classification date: prior to 1977										

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types	
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A		Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			
(E01101) 5.56mm, Blank, M200 Linked F/SAW is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$7.476 million support the procurement of 17.851 million M200 Blank Linked Cartridges. Type classification date: prior to 1977			
(E04601) 5.56mm Ball, M855 F/M16A2 is a training standard item used in training and combat. The request supports annual training and builds a war reserve in accordance with the Army's procurement goal. There is no FY 2024 funding request. Type classification date: 1982			
(E04603) 5.56MM Ball, M855 Linked F/SAW is a training standard item used in training and combat. The request supports annual training and builds a war reserve in accordance with the Army's procurement goal. There is no FY 2024 funding request. Type classification date: 1982			
(E04607) 5.56mm M855A1 Ball and M856A1 Tracer Cartridges are training standard items used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$14.960 million support the procurement of 21.959 million M855A1 Ball and M856A1 Tracer Cartridges. FY 2024 Base dollars in the amount of \$0.138 million support the COCOM requirement for procurement of 0.203 million M855A1 Ball and M856A1 Tracer Cartridges to deter potential adversaries and support European Deterrence Initiative. This is an increase of \$0.003 million from the FY 2023 enacted level. Type classification date: 2008			
(E04608) 5.56mm Tracer, M856A1, Single Round Bullet is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.031 million support the procurement of 0.031 million M856A1 Tracer cartridges. There are no FY 2024 Base procurement dollars in support of the European Deterrence Initiative (EDI). This is a decrease of \$0.444 million from the FY 2023 enacted level. Type classification date: 1982			
(E95200) 5.56mm, M855A1 Ball Cartridge is linked with the M27 link and is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$4.564 million support the procurement of 7.516 million M855A1 Ball Cartridges linked with the M27 link. Type classification date: 1982			
(E95400) 5.56mm, M855A1 Ball Cartridge is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.500 million support the procurement of 0.652 million M855A1 Ball Cartridges. Type classification date: 1982			
(E95700) 5.56mm, M855A1 Ball Cartridge is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$49.043 million support the procurement of 101.660 million M855A1 Ball Cartridges. Type classification date: 1982			
(E96110) 5.56mm, Marking, M1042 Blue is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$2.388 million support the procurement of 2.420 million Marking Blue M1042 Cartridges. Type classification date: May 2009			
(E96111) 5.56mm Marking, M1042 Red is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.899 million support the procurement of 0.911 million of the Marking Red M1042 Cartridges. Type classification date: May 2009			

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E96120) 5.56mm, Marking Blue, M1071 is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.258 million support the procurement of 0.208 million of the Marking Blue M1071 Cartridges. Type classification date: May 2009</p> <p>(E96121) 5.56mm, Marking Red, M1071 is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.010 million support the procurement of 0.008 million of the Marking Red M1071 Cartridges. Type classification date: May 2009</p> <p>(E96125) 5.56mm Short Range Training Ammunition (SRTA) M1037 clipped cartridges is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$2.558 million support the procurement of 1.838 million of the clipped SRTA M1037 Cartridges. Type classification date: July 2012</p>		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types						Item Number / Title [DODIC]: E01100 / CTG, 5.56mm Blank, M200, Single Round [A080]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				561.142		2.615		2.109		8.166		-		8.166				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				561.142		2.615		2.109		8.166		-		8.166				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				561.142		2.615		2.109		8.166		-		8.166				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	4.72	112,157K	529.156	0.23	9,566,747	2.200	0.25	7,876,744	1.969	0.25	30,277,505	7.569	-	-	-	0.25	30,277,505	7.569
Subtotal: Recurring Cost	-	-	529.156	-	-	2.200	-	-	1.969	-	-	7.569	-	-	-	-	-	7.569
Subtotal: Hardware Cost	-	-	529.156	-	-	2.200	-	-	1.969	-	-	7.569	-	-	-	-	-	7.569
Support - Production Engineering Cost																		
Production Engineering	-	-	31.931	-	-	0.415	-	-	0.137	-	-	0.595	-	-	-	-	-	0.595
Subtotal: Support - Production Engineering Cost	-	-	31.931	-	-	0.415	-	-	0.137	-	-	0.595	-	-	-	-	-	0.595
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.055	-	-	-	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
Subtotal: Support - Quality Assurance Cost	-	-	0.055	-	-	-	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
Gross/Weapon System Cost	-	-	561.142	-	-	2.615	-	-	2.109	-	-	8.166	-	-	-	-	-	8.166
†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types					Item Number / Title [DODIC]: E01100 / CTG, 5.56mm Blank, M200, Single Round [A080]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round ^(†)		2022	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Oct 2022	9,566,747	0.23	Y		
Complete Round ^(†)		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2023	6,695,232	0.25	Y		
Complete Round ^(†)		2023	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2023	1,181,512	0.24	Y		
Complete Round ^(†)		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2024	25,735,879	0.25	Y		
Complete Round ^(†)		2024	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2024	4,541,626	0.25	Y		

(†) indicates the presence of a P-21

Remarks:
Complete round is an average unit cost between two contractors. The quantity split will be determined between the two contractors in the year of execution.

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types												Item Number / Title [DODIC]: E01100 / CTG, 5.56mm Blank, M200, Single Round [A080]														
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2022												Fiscal Year 2023												B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Complete Round																																	
Prior Years Deliveries: 112156875																																	
	1	2022	AF (‡)	.359	.000	.359								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.359	
	1	2022	ARMY	9.567	.000	9.567								A -	-	-	-	-	-	.797	.797	.797	.797	.797	.797	.797	.797	.797	.797	.797	.797	.000	
	1	2022	Total	9.925	.000	9.925								-	-	-	-	-	-	.797	.797	.797	.797	.797	.797	.797	.797	.797	.797	.797	.797	.359	
	1	2023	AF (‡)	1.963	.000	1.963																			A -	-	-	-	-	-	-	.178	1.785
	1	2023	ARMY	6.695	.000	6.695																			A -	-	-	-	-	-	-	.609	6.087
	1	2023	NSOF (‡)	.946	.000	.946																			A -	-	-	-	-	-	-	.086	.860
	1	2023	Total	9.604	.000	9.604																			-	-	-	-	-	-	-	.873	8.731
	2	2023	ARMY	1.182	.000	1.182																			A -	-	-	-	-	-	-	.194	.987
	1	2024	AF (‡)	1.954	.000	1.954																										1.954	
	1	2024	ARMY	25.736	.000	25.736																										25.736	
	1	2024	NSOF (‡)	1.302	.000	1.302																										1.302	
	1	2024	Total	28.993	.000	28.993																										28.993	
	2	2024	ARMY	4.542	.000	4.542																										4.542	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types												Item Number / Title [DODIC]: E01100 / CTG, 5.56mm Blank, M200, Single Round [A080]													
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2024												Fiscal Year 2025												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
Complete Round																																
Prior Years Deliveries: 112156875																																
	1	2022	AF (‡)	.359	.000	.359	-	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033															.000
	1	2022	ARMY	9.567	9.567	.000	-	-	-	-	-	-	-	-	-	-	-															.000
	1	2022	Total	9.925	9.567	.359	-	.033	.033	.033	.033	.033	.033	.033	.033	.033	.033	-	-	-	-	-	-	-	-	-	-	-	-	-	.000	
	1	2023	AF (‡)	1.963	.178	1.785	-	.178	.178	.178	.178	.178	.178	.178	.178	.178															.000	
	1	2023	ARMY	6.695	.609	6.087	-	.609	.609	.609	.609	.609	.609	.609	.609	.609															.000	
	1	2023	NSOF (‡)	.946	.086	.860	-	.086	.086	.086	.086	.086	.086	.086	.086	.086															.000	
	1	2023	Total	9.604	.873	8.731	-	.873	.873	.873	.873	.873	.873	.873	.873	.873	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000	
	2	2023	ARMY	1.182	.194	.987	.194	.194	.194	.194	.194	.017																				.000
	1	2024	AF (‡)	1.954	.000	1.954	A -					-	-	-	-	-	-	.163	.163	.163	.163	.163	.163	.163	.163	.163	.163	.163	.163	.000		
	1	2024	ARMY	25.736	.000	25.736	A -					-	-	-	-	-	-	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145	2.145	.000		
	1	2024	NSOF (‡)	1.302	.000	1.302	A -					-	-	-	-	-	-	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.109	.000		
	1	2024	Total	28.993	.000	28.993	-					-	-	-	-	-	-	2.416	2.416	2.416	2.416	2.416	2.416	2.416	2.416	2.416	2.416	2.416	2.416	-	.000	
	2	2024	ARMY	4.542	.000	4.542	A -					-	-	-	-	-	-	.379	.379	.379	.379	.379	.379	.379	.379	.379	.379	.379	.377	.000		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types				Item Number / Title [DODIC]: E01100 / CTG, 5.56mm Blank, M200, Single Round [A080]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	OLIN WINCHESTER, LLC - LCAAP - INDEPENDENCE, MO	2,280,000	13,700,000	41,000,000	6	6	12	18	6	6	6	12
2	OLIN CORPORATION WINCHESTER - OXFORD, MS	2,280,000	13,700,000	41,000,000	6	6	12	18	6	6	6	12

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types						Item Number / Title [DODIC]: E01101 / CTG, 5.56mm Blank, M200 Linked f/SAW [A075]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				226.444		5.548		4.310		7.476		-		7.476				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				226.444		5.548		4.310		7.476		-		7.476				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				226.444		5.548		4.310		7.476		-		7.476				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	0.22	1,004,634K	225.031	0.36	14,120,302	5.083	0.38	10,411,787	3.956	0.39	17,851,062	6.962	-	-	-	0.39	17,851,062	6.962
Subtotal: Recurring Cost	-	-	225.038	-	-	5.083	-	-	3.956	-	-	6.962	-	-	-	-	-	6.962
Subtotal: Hardware Cost	-	-	225.038	-	-	5.083	-	-	3.956	-	-	6.962	-	-	-	-	-	6.962
Support - Product Improvement Cost																		
Environmental Initiatives	-	-	0.135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	0.135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	1.252	-	-	0.455	-	-	0.344	-	-	0.510	-	-	-	-	-	0.510
Subtotal: Support - Production Engineering Cost	-	-	1.252	-	-	0.455	-	-	0.344	-	-	0.510	-	-	-	-	-	0.510
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.019	-	-	0.009	-	-	0.009	-	-	0.004	-	-	-	-	-	0.004
Subtotal: Support - Quality Assurance Cost	-	-	0.019	-	-	0.009	-	-	0.009	-	-	0.004	-	-	-	-	-	0.004
Gross/Weapon System Cost	-	-	226.444	-	-	5.548	-	-	4.310	-	-	7.476	-	-	-	-	-	7.476
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types					Item Number / Title [DODIC]: E01101 / CTG, 5.56mm Blank, M200 Linked f/SAW [A075]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Apr 2023	14,120,302	0.36	Y		
COMPLETE ROUND ^(†)		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Apr 2024	10,411,787	0.38	Y		
COMPLETE ROUND ^(†)		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Apr 2025	17,851,062	0.39	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																	
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types										Item Number / Title [DODIC]: E01101 / CTG, 5.56mm Blank, M200 Linked f/SAW [A075]																	
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2022										Fiscal Year 2023										B A L A N C E										
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022										Calendar Year 2023																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P						
COMPLETE ROUND																																					
Prior Years Deliveries: 1004633826																																					
	1	2022	ARMY	14.120	.000	14.120							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.177	1.177	1.177	1.177	1.177	1.177	7.060			
	1	2023	ARMY	10.412	.000	10.412															A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.412
	1	2024	AF (‡)	1.234	.000	1.234																										1.234					
	1	2024	ARMY	17.851	.000	17.851																										17.851					
	1	2024	Total	19.085	.000	19.085																										19.085					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types													Item Number / Title [DODIC]: E01101 / CTG, 5.56mm Blank, M200 Linked f/SAW [A075]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2024												Fiscal Year 2025												B A L A N C E																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Prior Years Deliveries: 1004633826																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	1	2022	ARMY	14.120	7.060	7.060	1.177	1.177	1.177	1.177	1.177																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types										Item Number / Title [DODIC]: E01101 / CTG, 5.56mm Blank, M200 Linked f/SAW [A075]																
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2026										Fiscal Year 2027														B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026										Calendar Year 2027																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
COMPLETE ROUND																																				
Prior Years Deliveries: 1004633826																																				
	1	2022	ARMY	14.120	14.120	.000																														.000
	1	2023	ARMY	10.412	10.412	.000																														.000
	1	2024	AF (‡)	1.234	.617	.617	.103	.103	.103	.103	.103	.103																								.000
	1	2024	ARMY	17.851	8.926	8.926	1.488	1.488	1.488	1.488	1.488	1.488																								.000
	1	2024	Total	19.085	9.543	9.543	1.590	1.590	1.590	1.590	1.590	1.590	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types				Item Number / Title [DODIC]: E01101 / CTG, 5.56mm Blank, M200 Linked f/SAW [A075]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	OLIN WINCHESTER, LLC - LCAAP - INDEPENDENCE, MO	1,600,000	14,100,000	48,700,000	6	6	12	18	6	6	13	19

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types							Item Number / Title [DODIC]: E04601 / CTG, 5.56mm Ball, M855 f/ M16A2							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				744.884			5.496			-			-			-			-		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				744.884			5.496			-			-			-			-		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				744.884			5.496			-			-			-			-		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
COMPLETE ROUND	-	-	744.884	0.37	15,000,000	5.496	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Recurring Cost	-	-	744.884	-	-	5.496	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Hardware Cost	-	-	744.884	-	-	5.496	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost	-	-	744.884	-	-	5.496	-	-	-	-	-	-	-	-	-	-	-	-			

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types							Item Number / Title [DODIC]: E04603 / CTG 5.56MM BALL M855 LINKED F/SAW							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				118.947			0.608			-			-			-			-		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				118.947			0.608			-			-			-			-		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				118.947			0.608			-			-			-			-		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
COMPLETE ROUND	-	-	118.947	0.46	1,329,542	0.608	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Recurring Cost	-	-	118.947	-	-	0.608	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Hardware Cost	-	-	118.947	-	-	0.608	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost	-	-	118.947	-	-	0.608	-	-	-	-	-	-	-	-	-	-	-	-			

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types							Item Number / Title [DODIC]: E04607 / CTG, 5.56mm 4 Ball EPR, M855A1 / 1 TR M856A1 Linked [AB73]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				86.224			3.303			2.085			14.960			-			14.960		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				86.224			3.303			2.085			14.960			-			14.960		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				86.224			3.303			2.085			14.960			-			14.960		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
COMPLETE ROUND ^(†)	0.35	236,876K	82.473	0.60	5,190,358	3.114	0.64	2,963,075	1.896	0.65	21,958,673	14.273	-	-	-	0.65	21,958,673	14.273			
Subtotal: Recurring Cost	-	-	82.433	-	-	3.114	-	-	1.896	-	-	14.273	-	-	-	-	-	14.273			
Subtotal: Hardware Cost	-	-	82.433	-	-	3.114	-	-	1.896	-	-	14.273	-	-	-	-	-	14.273			
Support - Product Improvement Cost																					
Production Verification Test	-	-	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Product Improvement Cost	-	-	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Support - Production Engineering Cost																					
Production Engineering	-	-	3.739	-	-	0.185	-	-	0.184	-	-	0.682	-	-	-	-	-	0.682			
Subtotal: Support - Production Engineering Cost	-	-	3.739	-	-	0.185	-	-	0.184	-	-	0.682	-	-	-	-	-	0.682			
Support - Quality Assurance Cost																					
Quality Assurance	-	-	0.047	-	-	0.004	-	-	0.004	-	-	0.005	-	-	-	-	-	0.005			
Subtotal: Support - Quality Assurance Cost	-	-	0.047	-	-	0.004	-	-	0.004	-	-	0.005	-	-	-	-	-	0.005			
Gross/Weapon System Cost	-	-	86.224	-	-	3.303	-	-	2.085	-	-	14.960	-	-	-	-	-	14.960			
(†) indicates the presence of a P-5a																					

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types				Item Number / Title [DODIC]: E04607 / CTG, 5.56mm 4 Ball EPR, M855A1 / 1 TR M856A1 Linked [AB73]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Sep 2022	5,190,358	0.60	Y		
COMPLETE ROUND ^(†)		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Apr 2024	2,963,075	0.64	Y		
COMPLETE ROUND ^(†)		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Apr 2025	21,958,673	0.65	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																		
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types										Item Number / Title [DODIC]: E04607 / CTG, 5.56mm 4 Ball EPR, M855A1 / 1 TR M856A1 Linked [AB73]																		
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2022										Fiscal Year 2023														B A L A N C E							
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022										Calendar Year 2023																					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
COMPLETE ROUND																																						
Prior Years Deliveries: 236876416																																						
	1	2022	AF (‡)		.784	.000	.784						A -	-	-	-	-	.192	.065	.065	.065	.065	.065	.065	.065	.065	.065	.065	.065	.065	.004			.000				
	1	2022	ARMY		5.190	.000	5.190						A -	-	-	-	-	1.162	.433	.433	.433	.433	.433	.433	.433	.433	.433	.433	.433	.433	.136			.000				
	1	2022	Total		5.974	.000	5.974						-	-	-	-	-	1.353	.498	.498	.498	.498	.498	.498	.498	.498	.498	.498	.498	.498	.140	-	-	.000				
	1	2023	AF (‡)		.770	.000	.770																					A -	-	-	-	-	-	-	-	-	-	.770
	1	2023	ARMY		2.963	.000	2.963																					A -	-	-	-	-	-	-	-	-	-	2.963
	1	2023	Total		3.733	.000	3.733																					-	-	-	-	-	-	-	-	-	-	3.733
	1	2024	AF (‡)		.759	.000	.759																												.759			
	1	2024	ARMY		21.959	.000	21.959																												21.959			
	1	2024	Total		22.717	.000	22.717																												22.717			
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023												
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types													Item Number / Title [DODIC]: E04607 / CTG, 5.56mm 4 Ball EPR, M855A1 / 1 TR M856A1 Linked [AB73]												
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2024													Fiscal Year 2025												B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
COMPLETE ROUND																																			
Prior Years Deliveries: 236876416																																			
	1	2022	AF (‡)		.784	.784	.000																												.000
	1	2022	ARMY		5.190	5.190	.000																												.000
	1	2022	Total		5.974	5.974	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2023	AF (‡)		.770	.000	.770	-	-	-	-	-	-	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064							.000				
	1	2023	ARMY		2.963	.000	2.963	-	-	-	-	-	-	.247	.247	.247	.247	.247	.247	.247	.247	.247	.247	.247	.247	.247							.000		
	1	2023	Total		3.733	.000	3.733	-	-	-	-	-	-	.311	.311	.311	.311	.311	.311	.311	.311	.311	.311	.311	.311	-	-	-	-	-	-	.000			
	1	2024	AF (‡)		.759	.000	.759						A -	-	-	-	-	-	-	-	-	-	-	-	.063	.063	.063	.063	.063	.063	.379				
	1	2024	ARMY		21.959	.000	21.959						A -	-	-	-	-	-	-	-	-	-	-	-	-	1.830	1.830	1.830	1.830	1.830	1.830	10.979			
	1	2024	Total		22.717	.000	22.717						-	-	-	-	-	-	-	-	-	-	-	-	-	1.893	1.893	1.893	1.893	1.893	1.893	11.359			
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types										Item Number / Title [DODIC]: E04607 / CTG, 5.56mm 4 Ball EPR, M855A1 / 1 TR M856A1 Linked [AB73]															
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2026										Fiscal Year 2027													B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026										Calendar Year 2027																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P				
COMPLETE ROUND																																			
Prior Years Deliveries: 236876416																																			
	1	2022	AF (‡)		.784	.784	.000																												.000
	1	2022	ARMY		5.190	5.190	.000																												.000
	1	2022	Total		5.974	5.974	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2023	AF (‡)		.770	.770	.000																												.000
	1	2023	ARMY		2.963	2.963	.000																												.000
	1	2023	Total		3.733	3.733	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2024	AF (‡)		.759	.379	.379	.063	.063	.063	.063	.063																							.000
	1	2024	ARMY		21.959	10.979	10.979	1.830	1.830	1.830	1.830	1.830																							.000
	1	2024	Total		22.717	11.359	11.359	1.893	1.893	1.893	1.893	1.893	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types				Item Number / Title [DODIC]: E04607 / CTG, 5.56mm 4 Ball EPR, M855A1 / 1 TR M856A1 Linked [AB73]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	OLIN WINCHESTER, LLC - LCAAP - INDEPENDENCE, MO	1,600,000	5,143,040	9,771,776	6	6	12	18	6	6	13	19

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types						Item Number / Title [DODIC]: E04608 / CTG, 5.56mm Tracer, M856A1 Single Round [AB74]						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				10.651		0.466		0.838		0.031		-		0.031				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				10.651		0.466		0.838		0.031		-		0.031				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				10.651		0.466		0.838		0.031		-		0.031				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	8.05	1,229,601	9.902	0.75	604,046	0.453	0.80	996,144	0.797	0.81	30,547	0.025	-	-	-	0.81	30,547	0.025
Subtotal: Recurring Cost	-	-	9.902	-	-	0.453	-	-	0.797	-	-	0.025	-	-	-	-	-	0.025
Subtotal: Hardware Cost	-	-	9.902	-	-	0.453	-	-	0.797	-	-	0.025	-	-	-	-	-	0.025
Support - Production Engineering Cost																		
Production Engineering	-	-	0.745	-	-	0.013	-	-	0.041	-	-	0.002	-	-	-	-	-	0.002
Subtotal: Support - Production Engineering Cost	-	-	0.745	-	-	0.013	-	-	0.041	-	-	0.002	-	-	-	-	-	0.002
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.004	-	-	-	-	-	-	-	-	0.005	-	-	-	-	-	0.005
Subtotal: Support - Quality Assurance Cost	-	-	0.004	-	-	-	-	-	-	-	-	0.005	-	-	-	-	-	0.005
Gross/Weapon System Cost	-	-	10.651	-	-	0.466	-	-	0.838	-	-	0.031	-	-	-	-	-	0.031
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types					Item Number / Title [DODIC]: E04608 / CTG, 5.56mm Tracer, M856A1 Single Round [AB74]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Apr 2023	604,046	0.75	Y		
Complete Round		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Apr 2024	996,144	0.80	Y		
Complete Round		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Apr 2025	30,547	0.81	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types						Item Number / Title [DODIC]: E95200 / CTG, 5.56mm EPR Ball, M855A1 w/M27 Link f/SAW [AB56]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				31.941		1.221		1.458		4.564		-		4.564				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				31.941		1.221		1.458		4.564		-		4.564				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				31.941		1.221		1.458		4.564		-		4.564				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	0.36	79,883,285	28.899	0.53	2,238,841	1.187	0.56	2,427,398	1.359	0.57	7,515,915	4.284	-	-	-	0.57	7,515,915	4.284
Subtotal: Recurring Cost	-	-	28.918	-	-	1.187	-	-	1.359	-	-	4.284	-	-	-	-	-	4.284
Subtotal: Hardware Cost	-	-	28.918	-	-	1.187	-	-	1.359	-	-	4.284	-	-	-	-	-	4.284
Support - Production Engineering Cost																		
Production Engineering	-	-	2.996	-	-	0.034	-	-	0.095	-	-	0.276	-	-	-	-	-	0.276
Subtotal: Support - Production Engineering Cost	-	-	2.996	-	-	0.034	-	-	0.095	-	-	0.276	-	-	-	-	-	0.276
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.027	-	-	-	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Subtotal: Support - Quality Assurance Cost	-	-	0.027	-	-	-	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Gross/Weapon System Cost	-	-	31.941	-	-	1.221	-	-	1.458	-	-	4.564	-	-	-	-	-	4.564
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types					Item Number / Title [DODIC]: E95200 / CTG, 5.56mm EPR Ball, M855A1 w/M27 Link f/SAW [AB56]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Apr 2023	2,238,841	0.53	Y		
Complete Round		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Apr 2024	2,063,288	0.56	Y		
Complete Round		2023	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Apr 2024	364,110	0.56	Y		
Complete Round		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Apr 2025	6,388,528	0.57	Y		
Complete Round		2024	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Apr 2025	1,127,387	0.57	Y		

Remarks:
Complete round is an average unit cost between two contractors. The quantity split will be determined between the two contractors in the year of execution.

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types						Item Number / Title [DODIC]: E95400 / CTG, 5.56mm Ball, M855A1 EPR, Clipped Mil Pack [AB57]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				844.709		6.606		2.460		0.500		-		0.500				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				844.709		6.606		2.460		0.500		-		0.500				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				844.709		6.606		2.460		0.500		-		0.500				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	15.20	54,379,571	826.678	0.46	12,814,800	5.895	0.47	4,654,624	2.188	0.47	652,024	0.306	-	-	-	0.47	652,024	0.306
Subtotal: Recurring Cost	-	-	826.678	-	-	5.895	-	-	2.188	-	-	0.306	-	-	-	-	-	0.306
Subtotal: Hardware Cost	-	-	826.678	-	-	5.895	-	-	2.188	-	-	0.306	-	-	-	-	-	0.306
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	0.118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Engineering Change Proposals Cost	-	-	0.118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Environmental Initiatives	-	-	1.150	-	-	0.204	-	-	-	-	-	0.169	-	-	-	-	-	0.169
Production Qualification Test	-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	1.150	-	-	0.204	-	-	0.100	-	-	0.169	-	-	-	-	-	0.169
Support - Production Engineering Cost																		
Production Engineering	-	-	16.496	-	-	0.499	-	-	0.169	-	-	0.024	-	-	-	-	-	0.024

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types						Item Number / Title [DODIC]: E95400 / CTG, 5.56mm Ball, M855A1 EPR, Clipped Mil Pack [AB57]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Production Engineering Cost	-	-	16.496	-	-	0.499	-	-	0.169	-	-	0.024	-	-	-	-	-	0.024
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.033	-	-	0.008	-	-	0.004	-	-	0.001	-	-	-	-	-	0.001
Subtotal: Support - Quality Assurance Cost	-	-	0.033	-	-	0.008	-	-	0.004	-	-	0.001	-	-	-	-	-	0.001
Gross/Weapon System Cost	-	-	844.709	-	-	6.606	-	-	2.460	-	-	0.500	-	-	-	-	-	0.500

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types					Item Number / Title [DODIC]: E95400 / CTG, 5.56mm Ball, M855A1 EPR, Clipped Mil Pack [AB57]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Mar 2023	1,922,220	0.46	Y		
Complete Round		2022	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Apr 2023	10,892,580	0.46	Y		
Complete Round		2023	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Apr 2024	698,194	0.47	Y		
Complete Round		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Apr 2024	3,956,430	0.47	Y		
Complete Round		2024	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Apr 2025	97,804	0.47	Y		
Complete Round		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Apr 2025	554,220	0.47	Y		

Remarks:
Complete round is an average unit cost between two contractors. The quantity split will be determined between the two contractors in the year of execution.

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types						Item Number / Title [DODIC]: E95700 / CTG, 5.56mm Ball, M855A1 Clipped Bulk Pack [AB77]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				235.368			41.439			32.841			49.043			-			49.043		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				235.368			41.439			32.841			49.043			-			49.043		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				235.368			41.439			32.841			49.043			-			49.043		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
COMPLETE ROUND ^(†)	1.25	175,350K	219.187	0.43	91,965,917	39.545	0.44	68,957,177	30.341	0.45	101,660K	45.747	-	-	-	0.45	101,660K	45.747			
Subtotal: Recurring Cost	-	-	219.187	-	-	39.545	-	-	30.341	-	-	45.747	-	-	-	-	-	45.747			
Subtotal: Hardware Cost	-	-	219.187	-	-	39.545	-	-	30.341	-	-	45.747	-	-	-	-	-	45.747			
Support - Acceptance Testing Cost																					
Acceptance Test	-	-	-	-	-	0.010	-	-	0.055	-	-	0.055	-	-	-	-	-	0.055			
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.010	-	-	0.055	-	-	0.055	-	-	-	-	-	0.055			
Support - Engineering Change Proposals Cost																					
Engineering Change Proposals	-	-	0.202	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Engineering Change Proposals Cost	-	-	0.202	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Support - Non-Recurring Support Cost																					
Facilitization	-	-	-	-	-	-	-	-	0.178	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Non-Recurring Support Cost	-	-	-	-	-	-	-	-	0.178	-	-	-	-	-	-	-	-	-			
Support - Product Improvement Cost																					
Environmental Initiatives	-	-	0.864	-	-	0.055	-	-	0.115	-	-	0.169	-	-	-	-	-	0.169			
Safety	-	-	-	-	-	-	-	-	0.140	-	-	0.280	-	-	-	-	-	0.280			

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types						Item Number / Title [DODIC]: E95700 / CTG, 5.56mm Ball, M855A1 Clipped Bulk Pack [AB77]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Product Improvement Cost	-	-	0.864	-	-	0.055	-	-	0.255	-	-	0.449	-	-	-	-	-	0.449
Support - Production Engineering Cost																		
Production Engineering	-	-	15.051	-	-	1.820	-	-	2.002	-	-	2.783	-	-	-	-	-	2.783
Subtotal: Support - Production Engineering Cost	-	-	15.051	-	-	1.820	-	-	2.002	-	-	2.783	-	-	-	-	-	2.783
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.064	-	-	0.009	-	-	0.009	-	-	0.009	-	-	-	-	-	0.009
Subtotal: Support - Quality Assurance Cost	-	-	0.064	-	-	0.009	-	-	0.009	-	-	0.009	-	-	-	-	-	0.009
Gross/Weapon System Cost	-	-	235.368	-	-	41.439	-	-	32.841	-	-	49.043	-	-	-	-	-	49.043

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types					Item Number / Title [DODIC]: E95700 / CTG, 5.56mm Ball, M855A1 Clipped Bulk Pack [AB77]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Apr 2023	91,965,917	0.43	Y		
COMPLETE ROUND ^(†)		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Apr 2024	68,957,177	0.44	Y		
COMPLETE ROUND ^(†)		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Apr 2025	101,660K	0.45	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types																			Item Number / Title [DODIC]: E95700 / CTG, 5.56mm Ball, M855A1 Clipped Bulk Pack [AB77]										
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2022													Fiscal Year 2023													B A L A N C E						
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									
COMPLETE ROUND																																							
Prior Years Deliveries: 175349758																																							
	1	2022	ARMY	91.966	.000	91.966							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.113	1.113	1.113	1.113	1.113	1.113	85.286					
	1	2023	ARMY	68.957	.000	68.957																	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68.957
	1	2024	ARMY	101.660	.000	101.660																											101.660						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types													Item Number / Title [DODIC]: E95700 / CTG, 5.56mm Ball, M855A1 Clipped Bulk Pack [AB77]											
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2024												Fiscal Year 2025													B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T O 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
COMPLETE ROUND																																		
Prior Years Deliveries: 175349758																																		
	1	2022	ARMY	91.966	6.680	85.286	1.113	1.113	1.113	1.113	1.113																						78.606	
	1	2023	ARMY	68.957	.000	68.957	-	-	-	-	-	-	5.746	5.746	5.746	5.746	5.746	5.746	5.746	5.746	5.746	5.746	5.746										.000	
	1	2024	ARMY	101.660	.000	101.660						A	-	-	-	-	-	-	-	-	-	-	-	-	8.472	8.472	8.472	8.472	8.472	8.472		50.830		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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	1	2024	ARMY	101.660	50.830	50.830	8.472	8.472	8.472	8.472	8.472	8.472																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							</

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types				Item Number / Title [DODIC]: E95700 / CTG, 5.56mm Ball, M855A1 Clipped Bulk Pack [AB77]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	OLIN WINCHESTER, LLC - LCAAP - INDEPENDENCE, MO	900,000	19,400,000	67,500,000	6	6	12	18	6	6	13	19

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types						Item Number / Title [DODIC]: E96110 / CTG, 5.56mm Marking, M1042 (Blue) [AC39]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				26.979		1.261		1.995		2.388		-		2.388				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				26.979		1.261		1.995		2.388		-		2.388				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				26.979		1.261		1.995		2.388		-		2.388				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	0.71	34,342,979	24.475	0.67	1,855,023	1.243	0.93	2,080,349	1.935	0.94	2,420,395	2.275	-	-	-	0.94	2,420,395	2.275
Subtotal: Recurring Cost	-	-	24.487	-	-	1.243	-	-	1.935	-	-	2.275	-	-	-	-	-	2.275
Subtotal: Hardware Cost	-	-	24.487	-	-	1.243	-	-	1.935	-	-	2.275	-	-	-	-	-	2.275
Support - Production Engineering Cost																		
Production Engineering	-	-	2.492	-	-	0.018	-	-	0.060	-	-	0.113	-	-	-	-	-	0.113
Subtotal: Support - Production Engineering Cost	-	-	2.492	-	-	0.018	-	-	0.060	-	-	0.113	-	-	-	-	-	0.113
Gross/Weapon System Cost	-	-	26.979	-	-	1.261	-	-	1.995	-	-	2.388	-	-	-	-	-	2.388
†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types					Item Number / Title [DODIC]: E96110 / CTG, 5.56mm Marking, M1042 (Blue) [AC39]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	ULTIMATE TRAINING MUNITIONS / BURY ST EDMUNDS, UNITED KINGDOM	Option / FFP	PICATINNY ARSENAL, NJ	Jun 2022	Aug 2023	1,855,023	0.67	Y		
Complete Round		2023	ULTIMATE TRAINING MUNITIONS / BURY ST EDMUNDS, UNITED KINGDOM	Option / FFP	PICATINNY ARSENAL, NJ	Jul 2023	Aug 2024	2,080,349	0.93	Y		
Complete Round		2024	ULTIMATE TRAINING MUNITIONS / BURY ST EDMUNDS, UNITED KINGDOM	Option / FFP	PICATINNY ARSENAL, NJ	Jul 2024	Aug 2025	2,420,395	0.94	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types						Item Number / Title [DODIC]: E96111 / CTG, 5.56mm Marking, M1042 (Red) [AC40]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				15.373		0.645		1.359		0.899		-		0.899				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				15.373		0.645		1.359		0.899		-		0.899				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				15.373		0.645		1.359		0.899		-		0.899				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	0.70	20,711,983	14.562	0.67	934,646	0.626	0.93	1,453,361	1.352	0.94	911,195	0.857	-	-	-	0.94	911,195	0.857
Subtotal: Recurring Cost	-	-	14.561	-	-	0.626	-	-	1.352	-	-	0.857	-	-	-	-	-	0.857
Subtotal: Hardware Cost	-	-	14.561	-	-	0.626	-	-	1.352	-	-	0.857	-	-	-	-	-	0.857
Support - Production Engineering Cost																		
Production Engineering	-	-	0.812	-	-	0.019	-	-	0.007	-	-	0.042	-	-	-	-	-	0.042
Subtotal: Support - Production Engineering Cost	-	-	0.812	-	-	0.019	-	-	0.007	-	-	0.042	-	-	-	-	-	0.042
Gross/Weapon System Cost	-	-	15.373	-	-	0.645	-	-	1.359	-	-	0.899	-	-	-	-	-	0.899
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types					Item Number / Title [DODIC]: E96111 / CTG, 5.56mm Marking, M1042 (Red) [AC40]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	ULTIMATE TRAINING MUNITIONS / BURY ST EDMUNDS, UNITED KINGDOM	Option / FFP	PICATINNY ARSENAL, NJ	Jun 2022	Aug 2023	934,646	0.67	Y		
Complete Round		2023	ULTIMATE TRAINING MUNITIONS / BURY ST EDMUNDS, UNITED KINGDOM	Option / FFP	PICATINNY ARSENAL, NJ	Jul 2023	Aug 2024	1,453,361	0.93	Y		
Complete Round		2024	ULTIMATE TRAINING MUNITIONS / BURY ST EDMUNDS, UNITED KINGDOM	Option / FFP	PICATINNY ARSENAL, NJ	Jul 2024	Aug 2025	911,195	0.94	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types						Item Number / Title [DODIC]: E96120 / CTG, 5.56mm Marking, M1071 (Blue) Linked f/SAW [AC42]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				6.687		0.049		0.500		0.258		-		0.258				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				6.687		0.049		0.500		0.258		-		0.258				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				6.687		0.049		0.500		0.258		-		0.258				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	0.80	6,309,762	5.070	0.94	45,542	0.043	1.08	461,680	0.500	1.19	208,149	0.248	-	-	-	1.19	208,149	0.248
Subtotal: Recurring Cost	-	-	5.073	-	-	0.043	-	-	0.500	-	-	0.248	-	-	-	-	-	0.248
Subtotal: Hardware Cost	-	-	5.073	-	-	0.043	-	-	0.500	-	-	0.248	-	-	-	-	-	0.248
Support - Production Engineering Cost																		
Production Engineering	-	-	1.614	-	-	0.006	-	-	-	-	-	0.010	-	-	-	-	-	0.010
Subtotal: Support - Production Engineering Cost	-	-	1.614	-	-	0.006	-	-	-	-	-	0.010	-	-	-	-	-	0.010
Gross/Weapon System Cost	-	-	6.687	-	-	0.049	-	-	0.500	-	-	0.258	-	-	-	-	-	0.258
†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types					Item Number / Title [DODIC]: E96120 / CTG, 5.56mm Marking, M1071 (Blue) Linked f/SAW [AC42]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	ULTIMATE TRAINING MUNITIONS / BURY ST EDMUNDS, UNITED KINGDOM	Option / FFP	PICATINNY ARSENAL, NJ	Jun 2022	Aug 2023	45,542	0.94	Y		
Complete Round		2023	ULTIMATE TRAINING MUNITIONS / BURY ST EDMUNDS, UNITED KINGDOM	Option / FFP	PICATINNY ARSENAL, NJ	Jul 2023	Aug 2024	461,680	1.08	Y		
Complete Round		2024	ULTIMATE TRAINING MUNITIONS / BURY ST EDMUNDS, UNITED KINGDOM	Option / FFP	PICATINNY ARSENAL, NJ	Jul 2024	Aug 2025	208,149	1.19	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types						Item Number / Title [DODIC]: E96121 / CTG, 5.56mm Marking, M1071 (Red) Linked f/SAW [AC43]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				5.428		-		0.616		0.010		-		0.010				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				5.428		-		0.616		0.010		-		0.010				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				5.428		-		0.616		0.010		-		0.010				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	0.79	6,065,625	4.784	-	-	-	1.17	526,973	0.614	1.19	8,067	0.010	-	-	-	1.19	8,067	0.010
Subtotal: Recurring Cost	-	-	4.786	-	-	-	-	-	0.614	-	-	0.010	-	-	-	-	-	0.010
Subtotal: Hardware Cost	-	-	4.786	-	-	-	-	-	0.614	-	-	0.010	-	-	-	-	-	0.010
Support - Production Engineering Cost																		
Production Engineering	-	-	0.642	-	-	-	-	-	0.002	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Support - Production Engineering Cost	-	-	0.642	-	-	-	-	-	0.002	-	-	0.000	-	-	-	-	-	0.000
Gross/Weapon System Cost	-	-	5.428	-	-	-	-	-	0.616	-	-	0.010	-	-	-	-	-	0.010
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types					Item Number / Title [DODIC]: E96121 / CTG, 5.56mm Marking, M1071 (Red) Linked f/SAW [AC43]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2023	ULTIMATE TRAINING MUNITIONS / BURY ST EDMUNDS, UNITED KINGDOM	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2023	Apr 2024	526,973	1.16	Y		
Complete Round		2024	ULTIMATE TRAINING MUNITIONS / BURY ST EDMUNDS, UNITED KINGDOM	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Apr 2025	8,067	1.19	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types						Item Number / Title [DODIC]: E96125 / Ctg, 5.56mm, Short Range Training, M1037, snl rd [AB67]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				11.906		2.337		2.635		2.558		-		2.558				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				11.906		2.337		2.635		2.558		-		2.558				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				11.906		2.337		2.635		2.558		-		2.558				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	1.04	10,738,384	11.115	1.09	2,041,230	2.225	1.12	2,239,200	2.508	1.33	1,837,574	2.444	-	-	-	1.33	1,837,574	2.444
Subtotal: Recurring Cost	-	-	11.114	-	-	2.225	-	-	2.508	-	-	2.444	-	-	-	-	-	2.444
Subtotal: Hardware Cost	-	-	11.114	-	-	2.225	-	-	2.508	-	-	2.444	-	-	-	-	-	2.444
Support - Production Engineering Cost																		
Production Engineering	-	-	0.792	-	-	0.112	-	-	0.127	-	-	0.114	-	-	-	-	-	0.114
Subtotal: Support - Production Engineering Cost	-	-	0.792	-	-	0.112	-	-	0.127	-	-	0.114	-	-	-	-	-	0.114
Gross/Weapon System Cost	-	-	11.906	-	-	2.337	-	-	2.635	-	-	2.558	-	-	-	-	-	2.558
^(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0132E00700 / CTG, 5.56MM, All Types					Item Number / Title [DODIC]: E96125 / Ctg, 5.56mm, Short Range Training, M1037, sngl rd [AB67]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	CANADIAN COMMERCIAL CORP / OTTAWA, CANADA	SS / FFP	PICATINNY ARSENAL, NJ	Jun 2022	Nov 2022	2,041,230	1.09	Y		
COMPLETE ROUND		2023	CANADIAN COMMERCIAL CORP / OTTAWA, CANADA	SS / FFP	PICATINNY ARSENAL, NJ	Jun 2023	Nov 2023	2,239,200	1.12	Y		
COMPLETE ROUND		2024	TO BE SELECTED / TO BE SELECTED	C / FFP	TO BE SELECTED	Mar 2024	Sep 2024	1,837,574	1.33	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/
Medium Cal Ammunition

P-1 Line Item Number / Title:
0612E02000 / CTG, 7.62MM, All Types

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,490.404	132.839	90.631	65.370	-	65.370	62.221	83.402	86.629	86.283	-	3,097.779
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,490.404	132.839	90.631	65.370	-	65.370	62.221	83.402	86.629	86.283	-	3,097.779
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,490.404	132.839	90.631	65.370	-	65.370	62.221	83.402	86.629	86.283	-	3,097.779
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

SSN E02007 / CTG 7.62MM 4 BALL/1 TRACER F/OHF is a new start within the CTG, 7.62MM, All Types program in FY 2024
SSN F57515 / CTG, 7.62 REDUCED RANGE AMMUNITION is a new start within the CTG, 7.62MM, All Types program in FY 2024

This budget line includes 7.62mm ALL TYPES.

(E01902) 7.62mm Blank, M82 w/M13 Link is linked in 100-round belts for training use in the M240 family of machine weapons. The M82 is a blank cartridge (no projectile) designed to mimic the sound and function of combat ammunition with the use of a blank-firing adaptor. It can be identified by its long neck and rosette-crimped mouth. It is intended for training use only and is not suitable for combat. This item is Code A, approved for service use.

(E02002) 7.62mm 4 Ball M80/1 Tracer M62, w/M13 Link consists of M80 Ball and M62 Tracer rounds linked four-to-one and is used in the M240 Machine Gun. It is intended for use against personnel and nonarmored targets. Bullet consisting of copper alloy clad steel jacket with lead antimony slug. This item is Code A, approved for service use.

(E02007) 7.62mm 4 BALL/1 TRACER F/OHF consists of an M80 Overhead Fire (OHF) ball and an M62 OHF tracer cartridge linked four to one and is used for overhead fire in the M240 Machine Gun family of weapons. Manufactured with unique bullet jackets and no base closure seals to reduce fragmentation or shrapnel risks to soldiers training underneath the flight path of these bullets. This item is Code A, approved for service use.

(E02011) 7.62mm M80A1 Enhanced Performance Round (EPR) Ball is linked in a 100-cartridge belt with the M13 link for use in the M240 Machine Gun family of weapons. The M80A1 Ball Cartridge has a steel penetrator and non-lead slug surrounded by a copper jacket. They are intended for use against personnel and light-armored targets. This Item is Code A, approved for service use.

(E02012) 7.62mm M80A1 Enhanced Performance Round (EPR) Ball Cartridges and M62A1 Tracer Cartridges are linked in a 100-cartridge belt in a 4 Ball/1 Tracer configuration with the M13 link for use in the M240 Machine Gun family of weapons. The M80A1 Ball Cartridge has a steel penetrator and a non-lead slug surrounded by a copper jacket. The M62A1 Tracer Cartridge also contains a lead-free projectile and provides a visible red light signature through its trajectory and is a ballistic match with the M80A1 trajectory. They are intended for use against personnel and light-armored targets. This Item is Code A, approved for service use.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E02501) 7.62mm, Single Round (NPF DDI), M63A1 Dummy, Drilled and Inert ammunition (DDI) is an inert dummy cartridge used as an ammunition training aid and for weapon familiarization. The 7.62mm, M63A1 DDI ammunition is both nickel-plated and fluted (NPF) for easy recognition and to distinguish the dummy ammunition visually from tactical ammunition. This Item is Code A, approved for service use.</p> <p>(E89100) 7.62mm M118 Long Range cartridge is a match grade design intended for long-range accuracy and is packed in a 20-cartridge cardboard carton and intended for Sniper use in the M40, M110, M110A1, and MK21 Rifles. It is intended for use against personnel and non-armored targets. This Item is Code A, approved for service use.</p> <p>(F57510) 7.62mm M1158 Advanced Armor-Piercing (ADVAP) Ball Cartridges and M62A1 Tracer Cartridges are linked in a 100-cartridge belt in a 4 Ball/1 Tracer configuration with the M13 link for use in the M240 Machine Gun family of weapons. The M1158 Ball Cartridge uses projectiles with an exposed black metal tip surrounded by a copper jacket. The M62A1 Tracer Cartridge also contains a lead-free projectile and provides a visible red light signature through its trajectory and is a ballistic match with the M1158 trajectory. This item is intended for use against a broad spectrum of hard targets. This Item is Code A, approved for service use.</p> <p>(F57515) 7.62mm Reduced Range Cartridges, XM1164/XM1165, are issued in a 100 cartridge belt with the M13 link for use in the M240 machine gun family. These cartridges are conventional small-caliber munitions with a modified projectile designed for live fire training on ranges with reduced Surface Danger Zones (SDZ). They are intended for training use only and are not suitable for combat. These items are Code B, not approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition						P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E01902 / CTG, 7.62mm Blank, M82 w/M13 Link [A111]	P-5a, P-21	A		- / 377.300	- / 6.314	- / 4.733	- / 10.681	- / -	- / 10.681
P-5	E02002 / CTG, 7.62mm 4 Ball M80 / 1 Tracer M62, w/M13 Link [A131]		A		- / 747.303	- / 20.135	- / -	- / -	- / -	- / -
P-5	E02007 / CTG 7.62MM 4 BALL/1 TRACER F/OHF [A151]	P-5a	A		- / 748.675	- / -	- / -	- / 5.424	- / -	- / 5.424
P-5	E02011 / CTG, 7.62mm Ball M80A1 LeadFree, w/M13 Link [AB79]	P-5a	A		- / 93.908	- / 3.690	- / 1.075	- / 2.082	- / -	- / 2.082
P-5	E02012 / CTG, 7.62mm 4 Ball M80A1/1 Trcr M62A1 LeadFree [AB86]	P-5a, P-21	A		- / 409.207	- / 77.392	- / 45.837	- / 45.585	- / -	- / 45.585
P-5	E02501 / CTG, 7.62mm, Single Round (NPF DDI), M63A1 [AB47]	P-5a	A		- / 1.110	- / 0.075	- / -	- / -	- / -	- / -
P-5	E89100 / CTG, 7.62mm Special Ball, M118 Long Range [AA11]	P-5a	A		- / 48.228	- / 1.768	- / 0.986	- / 0.598	- / -	- / 0.598
P-5	F57510 / CTG, 7.62mm Advanced Armor Piercing, XM1158	P-5a	A		- / 64.673	- / 23.465	- / 38.000	- / -	- / -	- / -
P-5	F57515 / CTG, 7.62 REDUCED RANGE AMMUNITION	P-5a	B		- / -	- / -	- / -	- / 1.000	- / -	- / 1.000
P-40	Total Gross/Weapon System Cost				- / 2,490.404	- / 132.839	- / 90.631	- / 65.370	- / -	- / 65.370
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
<p>Justification:</p> <p>FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>FY2024 Base Budget supports the Minimum Sustaining Rates at both Lake City Army Ammunition Plant (LCAAP) as well as the Second Source facility in Oxford, MS.</p> <p>FY 2024 Total Base dollars in the amount of \$65.370 million supports the procurement of 67.666 million cartridges. The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or Foreign Military Sales (FMS) to increase procurement of 7.62MM ALL TYPES when possible.</p> <p>(E01902) 7.62mm Blank, M82 w/M13 Link is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. The FY 2024 Base procurement dollars in the amount of \$10.681 million supports the procurement of 16.855 million Blank M82 cartridges. Type classification date: 1960</p> <p>(E02002) 7.62mm 4 Ball M80/1 Tracer M62, w/M13 Link is a training standard item used in training and combat. There is no FY 2024 request for this item. Type classification date: 1962</p>										

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E02007) 7.62mm 4 BALL/1 TRACER F/OHF is a training unique item and is not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. The FY 2024 Base procurement dollars in the amount of \$5.424 million supports the procurement of 5.537 million 7.62mm M80 Overhead Fire (OHF) ball and a M62 OHF tracer cartridges. E02007 is a new start in FY 2024.</p> <p>TYPE CLASSIFICATION DATE: 1975</p>		
<p>(E02011) 7.62mm M80A1 Enhanced Performance Round (EPR) Lead Free Slug (LFS) Ball Cartridge is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The FY 2024 Base procurement dollars in the amount of \$2.082 million supports the procurement of 2.071 million 7.62mm M80A1 1 Ball (EPR) (LFS) Cartridges.</p> <p>Type classification date: 1962</p>		
<p>(E02012) 7.62mm M80A1 Enhanced Performance Round (EPR) 4 Ball /1 Trace, Lead Free Slug (LFS) Cartridge /M62A1 LFS Tracer Cartridge is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The FY 2024 Base procurement dollars in the amount of \$45.585 million supports the procurement of 42.000 million 7.62mm M80A1 4 Ball/1Trace (EPR) (LFS) Cartridges.</p> <p>Type classification date: 1962</p>		
<p>(E02501) 7.62mm Single Round (NPF DDI) M63A1 Round is a training unique item not used in combat. There is no FY 2024 request for this item.</p> <p>Type classification date: 1982</p>		
<p>(E89100) 7.62mm M118 Long Range Round is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The FY 2024 Base procurement dollars in the amount of \$0.598 million supports the procurement of 0.527 million 7.62mm M118 Long Range Cartridges.</p> <p>Type classification date: Prior to 1997</p>		
<p>(F57510) 7.62mm M1158 Advanced Armor-Piercing (ADVAP) Ball Cartridges and M62A1 Tracer Cartridges are linked in a 100 cartridge belt in a 4 Ball/1 Tracer configuration with the M13 link. This is a war reserve item used in combat. There is no FY 2024 request for this item.</p> <p>Type classification date: 2020</p>		
<p>(F57515) 7.62mm Reduced Range Cartridges - These are training unique items not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. The FY 2024 Base procurement dollars in the amount of \$1.000 million supports the procurement of 0.676 million 7.62mm Reduced Range Cartridges.</p> <p>F57515 is a new start in FY 2024.</p> <p>Type classification date: Pending 2023</p>		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types						Item Number / Title [DODIC]: E01902 / CTG, 7.62mm Blank, M82 w/ M13 Link [A111]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				377.300		6.314		4.733		10.681		-		10.681				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				377.300		6.314		4.733		10.681		-		10.681				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				377.300		6.314		4.733		10.681		-		10.681				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	0.40	932,456K	372.982	0.49	11,153,267	5.465	0.54	7,864,338	4.247	0.55	16,855,230	9.270	-	-	-	0.55	16,855,230	9.270
Subtotal: Recurring Cost	-	-	372.982	-	-	5.465	-	-	4.247	-	-	9.270	-	-	-	-	-	9.270
Subtotal: Hardware Cost	-	-	372.982	-	-	5.465	-	-	4.247	-	-	9.270	-	-	-	-	-	9.270
Support - Demilitarization Cost																		
MULTIPLE FAMILY	-	-	4.276	-	-	0.840	-	-	0.477	-	-	1.406	-	-	-	-	-	1.406
DEMOLITION MATERIAL	-	-	0.041	-	-	0.009	-	-	0.009	-	-	0.005	-	-	-	-	-	0.005
Subtotal: Support - Demilitarization Cost	-	-	4.317	-	-	0.849	-	-	0.486	-	-	1.411	-	-	-	-	-	1.411
Gross/Weapon System Cost	-	-	377.300	-	-	6.314	-	-	4.733	-	-	10.681	-	-	-	-	-	10.681
Remarks:																		
The price difference from FY 2022 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges, as well as the Economic Price Adjustment (EPA) allowable on contract in FY 2022 and FY 2023.																		
^(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types				Item Number / Title [DODIC]: E01902 / CTG, 7.62mm Blank, M82 w/ M13 Link [A111]				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Aug 2022	Apr 2023	11,153,267	0.49	Y		
COMPLETE ROUND ^(†)		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Apr 2024	7,864,338	0.54	Y		
COMPLETE ROUND ^(†)		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Apr 2025	16,855,230	0.55	Y		

^(†) indicates the presence of a P-21

Remarks:
The price difference from FY 2022 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges, as well as the Economic Price Adjustment (EPA) allowable on contract in FY 2022 and FY 2023.

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Exhibit P-21, Production Schedule: PB 2024 Army																		Date: March 2023																															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types																		Item Number / Title [DODIC]: E01902 / CTG, 7.62mm Blank, M82 w/ M13 Link [A111]																					
Cost Elements <i>(Units in Millions, * = < 500)</i>								Fiscal Year 2022														Fiscal Year 2023														B A L A N C E													
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023																												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																			
COMPLETE ROUND																																																	
Prior Years Deliveries: 932456007																																																	
	1	2022	ARMY	11.153	.000	11.153															A -	-	-	-	-	-	-	-	-	.929	.929	.929	.929	.929	.929	5.577													
	1	2023	ARMY	7.864	.000	7.864															A -														-	-	-	-	-	-	7.864								
	1	2024	ARMY	16.855	.000	16.855																																											16.855
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types										Item Number / Title [DODIC]: E01902 / CTG, 7.62mm Blank, M82 w/ M13 Link [A111]													
Cost Elements (Units in Millions, * = < 500)							Fiscal Year 2024													Fiscal Year 2025													B A L A N C E
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
COMPLETE ROUND																																	
Prior Years Deliveries: 932456007																																	
	1	2022	ARMY	11.153	5.577	5.577	.929	.929	.929	.929	.929	.929																					.000
	1	2023	ARMY	7.864	.000	7.864	-	-	-	-	-	-	.655	.655	.655	.655	.655	.655	.655	.655	.655	.655	.655	.655									.000
	1	2024	ARMY	16.855	.000	16.855							A -	-	-	-	-	-	-	-	-	-	-	-	-	1.405	1.405	1.405	1.405	1.405	1.405	8.428	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 5	BAL DUE AS OF 1 OCT	Calendar Year 2026										Calendar Year 2027																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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	1	2024	ARMY	16.855	8.428	8.428	1.405	1.405	1.405	1.405	1.405	1.405																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types				Item Number / Title [DODIC]: E01902 / CTG, 7.62mm Blank, M82 w/ M13 Link [A111]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	OLIN WINCHESTER, LLC - LCAAP - INDEPENDENCE, MO	800,000	5,160,000	17,700,000	6	6	18	24	6	6	13	19

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types							Item Number / Title [DODIC]: E02002 / CTG, 7.62mm 4 Ball M80 / 1 Tracer M62, w/M13 Link [A131]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (<i>Units in Each</i>)				-			-			-			-			-			-		
Gross/Weapon System Cost (<i>\$ in Millions</i>)				747.303			20.135			-			-			-			-		
Less PY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Net Procurement (P-1) (<i>\$ in Millions</i>)				747.303			20.135			-			-			-			-		
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Total Obligation Authority (<i>\$ in Millions</i>)				747.303			20.135			-			-			-			-		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
COMPLETE ROUND	0.79	947,043K	747.912	0.81	24,962,713	20.220	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Recurring Cost	-	-	748.164	-	-	20.220	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Hardware Cost	-	-	748.164	-	-	20.220	-	-	-	-	-	-	-	-	-	-	-	-			
Support - Production Engineering Cost																					
Production Engineering	-	-	0.086	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Production Engineering Cost	-	-	0.086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost	-	-	747.303	-	-	20.135	-	-	-	-	-	-	-	-	-	-	-	-			

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types						Item Number / Title [DODIC]: E02007 / CTG 7.62MM 4 BALL/1 TRACER F/OHF [A151]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (Units in Each)				-		-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				748.675		-			-			5.424			-			5.424		
Less PY Advance Procurement (\$ in Millions)				-		-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				748.675		-			-			5.424			-			5.424		
Plus CY Advance Procurement (\$ in Millions)				-		-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				748.675		-			-			5.424			-			5.424		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (\$ in Millions)				-		-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
COMPLETE ROUND ^(†)	0.55	1,361,117K	748.614	-	-	-	-	-	-	0.89	5,536,880	4.928	-	-	-	0.89	5,536,880	4.928		
Subtotal: Recurring Cost	-	-	748.614	-	-	-	-	-	-	-	-	4.928	-	-	-	-	-	4.928		
Subtotal: Hardware Cost	-	-	748.614	-	-	-	-	-	-	-	-	4.928	-	-	-	-	-	4.928		
Support - Production Engineering Cost																				
Production Engineering	-	-	0.203	-	-	-	-	-	-	-	-	0.496	-	-	-	-	-	0.496		
Subtotal: Support - Production Engineering Cost	-	-	0.203	-	-	-	-	-	-	-	-	0.496	-	-	-	-	-	0.496		
Support - Quality Assurance Cost																				
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.001	-	-	-	-	-	0.001		
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	-	-	-	-	-	-	0.001	-	-	-	-	-	0.001		
Gross/Weapon System Cost	-	-	748.675	-	-	-	-	-	-	-	-	5.424	-	-	-	-	-	5.424		
Remarks:																				
Army has not procured this item since FY 2018. FY 2024 unit cost reflects current contract pricing.																				
^(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types				Item Number / Title [DODIC]: E02007 / CTG 7.62MM 4 BALL/1 TRACER F/OHF [A151]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Apr 2025	5,536,880	0.89	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types						Item Number / Title [DODIC]: E02011 / CTG, 7.62mm Ball M80A1 LeadFree, w/M13 Link [AB79]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-						
Gross/Weapon System Cost (<i>\$ in Millions</i>)				93.908		3.690		1.075		2.082		-		2.082						
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Net Procurement (P-1) (<i>\$ in Millions</i>)				93.908		3.690		1.075		2.082		-		2.082						
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Total Obligation Authority (<i>\$ in Millions</i>)				93.908		3.690		1.075		2.082		-		2.082						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
COMPLETE ROUND ^(†)	0.79	111,400K	88.006	0.92	3,516,995	3.236	0.90	1,014,811	0.913	0.91	2,070,516	1.884	-	-	-	0.91	2,070,516	1.884		
Subtotal: Recurring Cost	-	-	88.006	-	-	3.236	-	-	0.913	-	-	1.884	-	-	-	-	-	1.884		
Subtotal: Hardware Cost	-	-	88.006	-	-	3.236	-	-	0.913	-	-	1.884	-	-	-	-	-	1.884		
Support - Acceptance Testing Cost																				
Acceptance Test	-	-	0.115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Acceptance Testing Cost	-	-	0.115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Production Engineering Cost																				
Production Engineering	-	-	5.792	-	-	0.444	-	-	0.152	-	-	0.192	-	-	-	-	-	0.192		
Subtotal: Support - Production Engineering Cost	-	-	5.792	-	-	0.444	-	-	0.152	-	-	0.192	-	-	-	-	-	0.192		
Support - Quality Assurance Cost																				
Quality Assurance	-	-	0.043	-	-	0.010	-	-	0.010	-	-	0.005	-	-	-	-	-	0.005		
Subtotal: Support - Quality Assurance Cost	-	-	0.043	-	-	0.010	-	-	0.010	-	-	0.005	-	-	-	-	-	0.005		
Gross/Weapon System Cost	-	-	93.908	-	-	3.690	-	-	1.075	-	-	2.082	-	-	-	-	-	2.082		
Remarks:																				

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types	Item Number / Title [DODIC]: E02011 / CTG, 7.62mm Ball M80A1 LeadFree, w/M13 Link [AB79]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<p>The price difference from FY 2022 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges, as well as the Economic Price Adjustment (EPA) allowable on contract in FY 2022 and FY 2023.</p> <p>(†) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types					Item Number / Title [DODIC]: E02011 / CTG, 7.62mm Ball M80A1 LeadFree, w/M13 Link [AB79]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Mar 2023	3,516,995	0.92	Y		
COMPLETE ROUND		2023	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	253,703	0.90	Y		
COMPLETE ROUND		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	761,108	0.90	Y		
COMPLETE ROUND		2024	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	517,629	0.91	Y		
COMPLETE ROUND		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	1,552,887	0.91	Y		
Remarks: Complete round is an average unit cost between two contractors. The quantity split will be determined between the two contractors in the year of execution.												

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types						Item Number / Title [DODIC]: E02012 / CTG, 7.62mm 4 Ball M80A1/1 Trcr M62A1 LeadFree [AB86]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				409.207		77.392		45.837		45.585		-		45.585				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				409.207		77.392		45.837		45.585		-		45.585				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				409.207		77.392		45.837		45.585		-		45.585				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	0.98	390,072K	383.051	0.93	79,005,150	73.475	0.98	42,352,733	41.506	0.98	42,000,391	41.160	-	-	-	0.98	42,000,391	41.160
Subtotal: Recurring Cost	-	-	383.051	-	-	73.475	-	-	41.506	-	-	41.160	-	-	-	-	-	41.160
Subtotal: Hardware Cost	-	-	383.051	-	-	73.475	-	-	41.506	-	-	41.160	-	-	-	-	-	41.160
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.528	-	-	-	-	-	0.105	-	-	0.115	-	-	-	-	-	0.115
Subtotal: Support - Acceptance Testing Cost	-	-	0.528	-	-	-	-	-	0.105	-	-	0.115	-	-	-	-	-	0.115
Support - Product Improvement Cost																		
Environmental Initiatives	-	-	1.685	-	-	-	-	-	0.105	-	-	0.105	-	-	-	-	-	0.105
Subtotal: Support - Product Improvement Cost	-	-	1.685	-	-	-	-	-	0.105	-	-	0.105	-	-	-	-	-	0.105
Support - Production Engineering Cost																		
Production Engineering	-	-	23.866	-	-	3.860	-	-	4.103	-	-	4.185	-	-	-	-	-	4.185
Subtotal: Support - Production Engineering Cost	-	-	23.866	-	-	3.860	-	-	4.103	-	-	4.185	-	-	-	-	-	4.185
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.078	-	-	0.019	-	-	0.019	-	-	0.019	-	-	-	-	-	0.019
Subtotal: Support - Quality Assurance Cost	-	-	0.078	-	-	0.019	-	-	0.019	-	-	0.019	-	-	-	-	-	0.019

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types						Item Number / Title [DODIC]: E02012 / CTG, 7.62mm 4 Ball M80A1/1 Trcr M62A1 LeadFree [AB86]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	409.207	-	-	77.392	-	-	45.837	-	-	45.585	-	-	-	-	-	45.585
Remarks: The price difference from FY 2022 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges, as well as the Economic Price Adjustment (EPA) allowable on contract in FY 2022 and FY 2023.																		
(t) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types				Item Number / Title [DODIC]: E02012 / CTG, 7.62mm 4 Ball M80A1/1 Trcr M62A1 LeadFree [AB86]				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Mar 2023	36,783,017	0.98	Y		
COMPLETE ROUND ^(†)		2022	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Mar 2023	42,222,133	0.98	Y		
COMPLETE ROUND ^(†)		2023	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	10,588,183	0.98	Y		
COMPLETE ROUND ^(†)		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	31,764,550	0.98	Y		
COMPLETE ROUND ^(†)		2024	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	10,500,098	0.98	Y		
COMPLETE ROUND ^(†)		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	31,500,293	0.98	Y		

^(†) indicates the presence of a P-21

Remarks:
Complete round is an average unit cost between two contractors. The quantity split will be determined between the two contractors in the year of execution.

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30								P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types												Item Number / Title [DODIC]: E02012 / CTG, 7.62mm 4 Ball M80A1/1 Trcr M62A1 LeadFree [AB86]																				
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2022												Fiscal Year 2023												B A L A N C E									
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023																					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										
COMPLETE ROUND																																								
Prior Years Deliveries: 390072328																																								
	1	2022	ARMY	36.783	.000	36.783								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.065	3.065	3.065	3.065	3.065	3.065	3.065	15.326		
	2	2022	ARMY	42.222	.000	42.222								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.519	3.519	3.519	3.519	3.519	3.519	3.519	17.593	
	1	2023	ARMY	10.588	.000	10.588																										A -	-	-	-	-	-	-	-	10.588
	2	2023	ARMY	31.765	.000	31.765																										A -	-	-	-	-	-	-	-	31.765
	1	2024	ARMY	10.500	.000	10.500																																10.500		
	2	2024	ARMY	31.500	.000	31.500																															31.500			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types										Item Number / Title [DODIC]: E02012 / CTG, 7.62mm 4 Ball M80A1/1 Trcr M62A1 LeadFree [AB86]													
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2024										Fiscal Year 2025												B A L A N C E				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024										Calendar Year 2025																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L		A U G	S E P		
COMPLETE ROUND																																	
Prior Years Deliveries: 390072328																																	
	1	2022	ARMY	36.783	21.457	15.326	3.065	3.065	3.065	3.065	3.065																				.000		
	2	2022	ARMY	42.222	24.630	17.593	3.519	3.519	3.519	3.519	3.519																				.000		
	1	2023	ARMY	10.588	.000	10.588	-	-	-	-	-	.882	.882	.882	.882	.882	.882	.882	.882	.882	.882	.882	.882							.000			
	2	2023	ARMY	31.765	.000	31.765	-	-	-	-	-	2.647	2.647	2.647	2.647	2.647	2.647	2.647	2.647	2.647	2.647	2.647	2.647							.000			
	1	2024	ARMY	10.500	.000	10.500						A -	-	-	-	-	-	-	-	-	-	-	-	.875	.875	.875	.875	.875	.875	.875	4.375		
	2	2024	ARMY	31.500	.000	31.500						A -	-	-	-	-	-	-	-	-	-	-	-	2.625	2.625	2.625	2.625	2.625	2.625	2.625	13.125		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types										Item Number / Title [DODIC]: E02012 / CTG, 7.62mm 4 Ball M80A1/1 Trcr M62A1 LeadFree [AB86]															
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2026										Fiscal Year 2027														BALANCE				
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026										Calendar Year 2027																		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
COMPLETE ROUND																																			
Prior Years Deliveries: 390072328																																			
	1	2022	ARMY	36.783	36.783	.000																													.000
	2	2022	ARMY	42.222	42.222	.000																													.000
	1	2023	ARMY	10.588	10.588	.000																													.000
	2	2023	ARMY	31.765	31.765	.000																													.000
	1	2024	ARMY	10.500	6.125	4.375																													.875
	2	2024	ARMY	31.500	18.375	13.125	2.625	2.625	2.625	2.625	2.625	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				.000								

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types				Item Number / Title [DODIC]: E02012 / CTG, 7.62mm 4 Ball M80A1/1 Trcr M62A1 LeadFree [AB86]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	OLIN CORPORATION WINCHESTER - OXFORD, MS	500,000	2,000,000	6,000,000	6	6	18	24	6	6	12	18
2	OLIN WINCHESTER, LLC - LCAAP - INDEPENDENCE, MO	500,000	2,000,000	10,000,000	6	6	18	24	6	6	12	18

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types						Item Number / Title [DODIC]: E02501 / CTG, 7.62mm, Single Round (NPF DDI), M63A1 [AB47]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				1.110		0.075		-		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				1.110		0.075		-		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				1.110		0.075		-		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	13.03	77,166	1.006	1.09	68,807	0.075	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	1.006	-	-	0.075	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	1.006	-	-	0.075	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.099	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	0.099	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	1.110	-	-	0.075	-	-	-	-	-	-	-	-	-	-	-	-
^(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types				Item Number / Title [DODIC]: E02501 / CTG, 7.62mm, Single Round (NPF DDI), M63A1 [AB47]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	KAK INDUSTRY LLC. / LEES SUMMIT, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Aug 2022	Nov 2023	68,807	1.09	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types						Item Number / Title [DODIC]: E89100 / CTG, 7.62mm Special Ball, M118 Long Range [AA11]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				48.228		1.768		0.986		0.598		-		0.598				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				48.228		1.768		0.986		0.598		-		0.598				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				48.228		1.768		0.986		0.598		-		0.598				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
BOX METAL M2A2	13.21	11,213	0.148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COMPLETE ROUND ^(†)	0.97	45,299,869	43.853	0.90	1,885,095	1.697	1.01	902,732	0.912	1.03	526,541	0.542	-	-	-	1.03	526,541	0.542
Subtotal: Recurring Cost	-	-	43.998	-	-	1.697	-	-	0.912	-	-	0.542	-	-	-	-	-	0.542
Subtotal: Hardware Cost	-	-	43.998	-	-	1.697	-	-	0.912	-	-	0.542	-	-	-	-	-	0.542
Support - Production Engineering Cost																		
Production Engineering	-	-	4.204	-	-	0.067	-	-	0.066	-	-	0.051	-	-	-	-	-	0.051
Subtotal: Support - Production Engineering Cost	-	-	4.204	-	-	0.067	-	-	0.066	-	-	0.051	-	-	-	-	-	0.051
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.023	-	-	0.005	-	-	0.005	-	-	0.005	-	-	-	-	-	0.005
Subtotal: Support - Quality Assurance Cost	-	-	0.023	-	-	0.005	-	-	0.005	-	-	0.005	-	-	-	-	-	0.005
Gross/Weapon System Cost	-	-	48.228	-	-	1.768	-	-	0.986	-	-	0.598	-	-	-	-	-	0.598
Remarks: The price difference from FY 2022 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges, as well as the Economic Price Adjustment (EPA) allowable on contract in FY 2022 and FY 2023.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types	Item Number / Title [DODIC]: E89100 / CTG, 7.62mm Special Ball, M118 Long Range [AA11]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<div>(†) indicates the presence of a P-5a</div>		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types					Item Number / Title [DODIC]: E89100 / CTG, 7.62mm Special Ball, M118 Long Range [AA11]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Mar 2023	1,885,095	0.90	Y		
COMPLETE ROUND		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	902,732	1.01	Y		
COMPLETE ROUND		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	526,541	1.03	Y		
Remarks: The price difference from FY 2022 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges, as well as the Economic Price Adjustment (EPA) allowable on contract in FY 2022 and FY 2023.												

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types						Item Number / Title [DODIC]: F57510 / CTG, 7.62mm Advanced Armor Piercing, XM1158						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				64.673		23.465		38.000		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				64.673		23.465		38.000		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				64.673		23.465		38.000		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	17.45	3,457,906	60.347	15.18	1,456,350	22.107	14.30	2,573,658	36.803	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	60.347	-	-	22.107	-	-	36.803	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	60.347	-	-	22.107	-	-	36.803	-	-	-	-	-	-	-	-	-
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	-	-	-	-	-	-	0.285	-	-	-	-	-	-	-	-	-
Subtotal: Support - Engineering Change Proposals Cost	-	-	-	-	-	-	-	-	0.285	-	-	-	-	-	-	-	-	-
Support - Non-Recurring Support Cost																		
Value Engineering	-	-	0.689	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Non-Recurring Support Cost	-	-	0.689	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	3.611	-	-	1.348	-	-	0.903	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	3.611	-	-	1.348	-	-	0.903	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.024	-	-	0.009	-	-	0.009	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types							Item Number / Title [DODIC]: F57510 / CTG, 7.62mm Advanced Armor Piercing, XM1158					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
	Subtotal: Support - Quality Assurance Cost	-	-	0.024	-	-	0.009	-	-	0.009	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	64.673	-	-	23.465	-	-	38.000	-	-	-	-	-	-	-	-	-

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types				Item Number / Title [DODIC]: F57510 / CTG, 7.62mm Advanced Armor Piercing, XM1158				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	US ARMY ARDEC RDECOM / PICATINNY ARSENAL, NJ	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2022	Mar 2023	1,456,350	15.18	Y		
COMPLETE ROUND		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	2,573,658	14.30	Y		

Remarks:
FY 2023 complete round is an average unit cost between two contractors. The quantity split will be determined between the two contractors in the year of execution.

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types						Item Number / Title [DODIC]: F57515 / CTG, 7.62 REDUCED RANGE AMMUNITION								
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-						
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-		-		-		1.000		-		1.000						
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Net Procurement (P-1) (<i>\$ in Millions</i>)				-		-		-		1.000		-		1.000						
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Total Obligation Authority (<i>\$ in Millions</i>)				-		-		-		1.000		-		1.000						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	1.42	676,059	0.960	-	-	-	1.42	676,059	0.960		
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	0.960	-	-	-	-	-	0.960		
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	0.960	-	-	-	-	-	0.960		
Support - Production Engineering Cost																				
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.040	-	-	-	-	-	0.040		
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	0.040	-	-	-	-	-	0.040		
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000		
^(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 0612E02000 / CTG, 7.62MM, All Types				Item Number / Title [DODIC]: F57515 / CTG, 7.62 REDUCED RANGE AMMUNITION				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2024	TBD / TBD	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	676,059	1.42	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition							P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A					Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	14.386	71.234	96.496	191.244	-	191.244	205.478	335.659	335.650	335.650	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	14.386	71.234	96.496	191.244	-	191.244	205.478	335.659	335.650	335.650	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	14.386	71.234	96.496	191.244	-	191.244	205.478	335.659	335.650	335.650	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:
This budget line includes NEXT GENERATION SQUAD WEAPON AMMUNITION

(E06002) NEXT GENERATION COMBAT ROUND is a 6.8mm Ball Cartridge / General Purpose (GP) ammunition packed in cartons and cartridge-linked belts. The ammunition is available in straight and linked configurations for use in the Next Generation Squad Weapons (NGSW) Rifle and Automatic Rifle. The GP Ball Cartridge has a steel penetrator and non-lead slug surrounded by a copper jacket. This ammunition is intended for use against personnel and light-armored targets. The GP ammunition is a training standard item used in both combat and training. This item is Code B, not approved for service use.

(E06014) NEXT GENERATION REDUCED RANGE ROUND is a 6.8mm Ball Cartridge; a training standard item used for training purposes only. The ammunition is packed in cartons and linked belts for use in the NGSW Rifle and Automatic Rifle. The Cartridge is intended to perform similarly to the combat variants and is intended for use on military installations with Surface Danger Zone (SDZ) restrictions. This item is Code B, not approved for service use.

(E06015) NEXT GENERATION SQUAD WEAPON SPECIAL PURPOSE ROUND is a 6.8mm Ball Cartridge. The Special Purpose (SP) ammunition is packed in cartons and linked belts; for use in the NGSW Rifle and Automatic Rifle. The SP Ball Cartridge utilizes projectiles with an exposed black tip surrounded by a copper jacket. This ammunition is intended for use against a broad spectrum of hard targets. The SP ammunition is a combat-only war reserve item. This item is Code B, not approved for service use.

(E60011) NEXT GENERATION BLANK ROUND is a 6.8mm BLANK cartridge that does not have a projectile. It is designed to mimic the sound and function of the combat ammunition variants. It is intended for training use only and is not suitable for combat. The Blank ammunition is packed in cartons for use in the NGSW Rifle and Automatic Rifle. This item is Code B, not approved for service use.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army							Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition					P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E06002 / NEXT GENERATION COMBAT ROUND	P-5a, P-21	B		- / 14.386	- / 53.459	- / 23.523	- / 35.896	- / -	- / 35.896
P-5	E06014 / NEXT GENERATION REDUCED RANGE ROUND	P-5a, P-21	B		- / -	- / 13.159	- / 42.043	- / 107.341	- / -	- / 107.341
P-5	E06015 / NEXT GENERATION SQUAD WEAPON SPECIAL PURPOSE ROUND	P-5a, P-21	B		- / -	- / 0.427	- / 7.858	- / 14.488	- / -	- / 14.488
P-5	E60011 / NEXT GENERATION BLANK ROUND	P-5a, P-21	B		- / -	- / 4.189	- / 23.072	- / 33.519	- / -	- / 33.519
P-40	Total Gross/Weapon System Cost				- / 14.386	- / 71.234	- / 96.496	- / 191.244	- / -	- / 191.244
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense (DoD) Instruction 3000.04 (Munitions Requirements Process) and Army Regulation (AR) 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. The FY 2024 Base procurement dollars in the amount of \$191.244 million supports procurement of 161.789 million cartridges. The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or Foreign Military Sales (FMS) to increase procurement of NEXT GENERATION SQUAD WEAPON AMMUNITION when possible. Funding for this ammunition procurement budget item aligns with the Army's modernization priorities in support of the National Defense Strategy. The NGSW-A program is a key Army Modernization Priority and supports the Soldier Lethality Cross Functional Team (CFT) objectives. (E06002) NEXT GENERATION COMBAT ROUND / General Purpose (GP) ammunition is a training standard item used in both combat and training. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$35.896 million supports the procurement of 27.451 million GP cartridges. Type classification date: Projected 3rd Quarter FY2025. (E06014) NEXT GENERATION REDUCED RANGE ROUND is a training unique item not used in combat. FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$107.341 million supports the procurement of 92.881 million Reduced Range cartridges. Type classification date: Projected 1st Quarter FY2026. (E06015) NEXT GENERATION SQUAD WEAPON SPECIAL PURPOSE ROUND / Special Purpose (SP) ammunition is a war reserve item used in combat. FY 2024 request builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$14.488 million supports the procurement of 1.130 million SP cartridges. Type classification date: Projected 3rd Quarter FY2026. (E60011) NEXT GENERATION BLANK ROUND is a training unique item not used in combat. FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$33.519 million supports the procurement of 40.327 million BLANK cartridges.										

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION				Item Number / Title [DODIC]: E06002 / NEXT GENERATION COMBAT ROUND				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	SIG SAUER, INC. / NEWINGTON, NH	C / FFP	PICATINNY ARSENAL NJ	Aug 2022	Aug 2023	14,922,922	3.35	Y		
COMPLETE ROUND ^(†)		2023	SIG SAUER, INC. / NEWINGTON, NH	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2024	8,304,515	2.68	N		
COMPLETE ROUND ^(†)		2024	SIG SAUER, INC. / NEWINGTON, NH	Option / FFP	PICATINNY ARSENAL NJ	Mar 2024	Mar 2025	15,704,798	2.15	N		

^(†) indicates the presence of a P-21

Remarks:
Unit price decrease from FY 2023 to FY 2024 due to higher quantities ordered.

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION										Item Number / Title [DODIC]: E06002 / NEXT GENERATION COMBAT ROUND																											
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2022										Fiscal Year 2023													B A L A N C E																	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022										Calendar Year 2023																														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P																
COMPLETE ROUND																																															
Prior Years Deliveries: 4364763																																															
	1	2022	ARMY	14.923	.000	14.923											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.244	1.244	12.436												
	1	2023	ARMY	8.305	.000	8.305											A													-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.305			
	1	2024	ARMY	15.705	.000	15.705																																									15.705
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																	

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION										Item Number / Title [DODIC]: E06002 / NEXT GENERATION COMBAT ROUND													
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2024										Fiscal Year 2025													B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024										Calendar Year 2025																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
COMPLETE ROUND																																	
Prior Years Deliveries: 4364763																																	
	1	2022	ARMY	14.923	2.487	12.436	1.244	1.244	1.244	1.244	1.244	1.244	1.244	1.244	1.244																		.000
	1	2023	ARMY	8.305	.000	8.305	-	-	-	-	-	.605	.700	.700	.700	.700	.700	.700	.700	.700	.700	.700											.000
	1	2024	ARMY	15.705	.000	15.705						A -	-	-	-	-	-	-	-	-	-	-	-	1.309	1.309	1.309	1.309	1.309	1.309	1.309	6.544		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION				Item Number / Title [DODIC]: E06002 / NEXT GENERATION COMBAT ROUND			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	SIG SAUER, INC. - NEWINGTON, NH	250,000	5,000,000	10,000,000	6	6	12	18	6	6	12	18

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION						Item Number / Title [DODIC]: E06014 / NEXT GENERATION REDUCED RANGE ROUND						
ID Code (A=Service Ready, B=Not Service Ready) : B									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		13.159		42.043		107.341		-		107.341				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		13.159		42.043		107.341		-		107.341				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		13.159		42.043		107.341		-		107.341				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	3.39	3,795,095	12.865	2.31	16,542,943	38.214	2.08	48,226,868	100.312	-	-	-	2.08	48,226,868	100.312
Subtotal: Recurring Cost	-	-	-	-	-	12.865	-	-	38.214	-	-	100.312	-	-	-	-	-	100.312
Subtotal: Hardware Cost	-	-	-	-	-	12.865	-	-	38.214	-	-	100.312	-	-	-	-	-	100.312
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.295	-	-	3.829	-	-	7.029	-	-	-	-	-	7.029
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.295	-	-	3.829	-	-	7.029	-	-	-	-	-	7.029
Gross/Weapon System Cost	-	-	-	-	-	13.159	-	-	42.043	-	-	107.341	-	-	-	-	-	107.341
Remarks: Unit price decrease from FY 2022 to FY 2024 due to higher quantities ordered. Production Engineering increase from FY 2022 to FY 2024 due to increase in procurement quantities. (†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION				Item Number / Title [DODIC]: E06014 / NEXT GENERATION REDUCED RANGE ROUND				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	SIG SAUER, INC. / NEWINGTON, NH	C / FFP	PICATINNY ARSENAL NJ	Aug 2022	Aug 2023	3,795,095	3.39	Y		
COMPLETE ROUND ^(†)		2023	SIG SAUER, INC. / NEWINGTON, NH	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2024	16,542,943	2.31	Y		
COMPLETE ROUND ^(†)		2024	SIG SAUER, INC. / NEWINGTON, NH	Option / FFP	PICATINNY ARSENAL NJ	Mar 2024	Mar 2025	48,226,868	2.08	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30								P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION												Item Number / Title [DODIC]: E06014 / NEXT GENERATION REDUCED RANGE ROUND																											
Cost Elements <small>(Units in Millions, * = < 500)</small>								Fiscal Year 2022												Fiscal Year 2023												B A L A N C E															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023																												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																	
COMPLETE ROUND																																															
	1	2022	ARMY	3.795	.000	3.795													A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.316	.316	3.163									
	1	2023	ARMY	16.543	.000	16.543																									A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.543
	1	2024	ARMY	48.227	.000	48.227																																					48.227				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																	

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023												
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION										Item Number / Title [DODIC]: E06014 / NEXT GENERATION REDUCED RANGE ROUND												
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2024										Fiscal Year 2025														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024										Calendar Year 2025															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
COMPLETE ROUND																																
	1	2022	ARMY	3.795	.633	3.163	.316	.316	.316	.316	.316	.316	.316	.316	.316																	.000
	1	2023	ARMY	16.543	.000	16.543	-	-	-	-	-	1.200	1.350	1.400	1.400	1.400	1.400	1.400	1.400	1.400	1.393											.000
	1	2024	ARMY	48.227	.000	48.227						A -	-	-	-	-	-	-	-	-	-	-	4.019	4.019	4.019	4.019	4.019	4.019	4.019	20.095		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION													Item Number / Title [DODIC]: E06014 / NEXT GENERATION REDUCED RANGE ROUND													
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2026										Fiscal Year 2027													B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026										Calendar Year 2027																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
COMPLETE ROUND																																	
	1	2022	ARMY		3.795	3.795	.000																										.000
	1	2023	ARMY		16.543	16.543	.000																										.000
	1	2024	ARMY		48.227	28.132	20.095	4.019	4.019	4.019	4.019	4.019																				.000	
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION				Item Number / Title [DODIC]: E06014 / NEXT GENERATION REDUCED RANGE ROUND			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	SIG SAUER, INC. - NEWINGTON, NH	2,500,000	5,000,000	9,000,000	6	6	12	18	6	6	12	18

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION						Item Number / Title [DODIC]: E06015 / NEXT GENERATION SQUAD WEAPON SPECIAL PURPOSE ROUND						
ID Code (A=Service Ready, B=Not Service Ready) : B									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		0.427		7.858		14.488		-		14.488				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		0.427		7.858		14.488		-		14.488				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		0.427		7.858		14.488		-		14.488				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	13.26	25,000	0.332	21.47	353,802	7.596	12.37	1,129,902	13.977	-	-	-	12.37	1,129,902	13.977
Subtotal: Recurring Cost	-	-	-	-	-	0.332	-	-	7.596	-	-	13.977	-	-	-	-	-	13.977
Subtotal: Hardware Cost	-	-	-	-	-	0.332	-	-	7.596	-	-	13.977	-	-	-	-	-	13.977
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.096	-	-	0.261	-	-	0.511	-	-	-	-	-	0.511
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.096	-	-	0.261	-	-	0.511	-	-	-	-	-	0.511
Gross/Weapon System Cost	-	-	-	-	-	0.427	-	-	7.858	-	-	14.488	-	-	-	-	-	14.488
Remarks:																		
Unit price increase from FY 2022 to FY 2023 due to Ammunition costs increased greater than the historical inflation rates of 2-3%. Unit price decrease from FY 2023 to FY 2024 due to higher quantities ordered.																		
Production Engineering increase from FY 2022 to FY 2024 due to increase in procurement quantities.																		
^(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION				Item Number / Title [DODIC]: E06015 / NEXT GENERATION SQUAD WEAPON SPECIAL PURPOSE ROUND				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	SIG SAUER, INC. / NEWINGTON, NH	C / FFP	PICATINNY ARSENAL NJ	Feb 2023	Feb 2024	25,000	13.26	Y		
COMPLETE ROUND ^(†)		2023	SIG SAUER, INC. / NEWINGTON, NH	Option / FFP	ROCK ISLAND ARMENAL, IL	Mar 2023	Mar 2024	353,802	21.47	N		
COMPLETE ROUND ^(†)		2024	SIG SAUER, INC. / NEWINGTON, NH	Option / FFP	PICATINNY ARSENAL NJ	Mar 2024	Mar 2025	1,129,902	12.37	N		

^(†) indicates the presence of a P-21

Remarks:
Unit price increase from FY 2022 to FY 2023 due to Ammunition costs increased greater than the historical inflation rates of 2-3%. Unit price decrease from FY 2023 to FY 2024 due to higher quantities ordered.

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION										Item Number / Title [DODIC]: E06015 / NEXT GENERATION SQUAD WEAPON SPECIAL PURPOSE ROUND															
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2023													Fiscal Year 2024													B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
COMPLETE ROUND																																			
	1	2022	ARMY	.025	.000	.025	A -				-	-	-	-	-	-	-	-	-	-	-	-	.002	.002	.002	.002	.002	.002	.002	.002	.002	.008			
	1	2023	ARMY	.354	.000	.354	A -				-	-	-	-	-	-	-	-	-	-	-	-	.029	.029	.029	.029	.029	.029	.029	.029	.029	.147			
	1	2024	ARMY	1.130	.000	1.130														A -	-	-	-	-	-	-									1.130
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION										Item Number / Title [DODIC]: E06015 / NEXT GENERATION SQUAD WEAPON SPECIAL PURPOSE ROUND													
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2025										Fiscal Year 2026														B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025														Calendar Year 2026												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
COMPLETE ROUND																																	
	1	2022	ARMY		.025	.017	.008	.002	.002	.002	.002																					.000	
	1	2023	ARMY		.354	.206	.147	.029	.029	.029	.029	.029																					.000
	1	2024	ARMY		1.130	.000	1.130	-	-	-	-	-	.094	.094	.094	.094	.094	.094	.094	.094	.094	.094	.094									.000	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION				Item Number / Title [DODIC]: E06015 / NEXT GENERATION SQUAD WEAPON SPECIAL PURPOSE ROUND			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	SIG SAUER, INC. - NEWINGTON, NH	100,000	500,000	2,000,000	6	6	12	18	6	6	12	18

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION						Item Number / Title [DODIC]: E60011 / NEXT GENERATION BLANK ROUND						
ID Code (A=Service Ready, B=Not Service Ready) : B									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		4.189		23.072		33.519		-		33.519				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		4.189		23.072		33.519		-		33.519				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		4.189		23.072		33.519		-		33.519				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	1.58	2,501,117	3.952	1.47	14,805,952	21.765	0.77	40,326,895	31.052	-	-	-	0.77	40,326,895	31.052
Subtotal: Recurring Cost	-	-	-	-	-	3.952	-	-	21.765	-	-	31.052	-	-	-	-	-	31.052
Subtotal: Hardware Cost	-	-	-	-	-	3.952	-	-	21.765	-	-	31.052	-	-	-	-	-	31.052
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.237	-	-	1.307	-	-	2.467	-	-	-	-	-	2.467
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.237	-	-	1.307	-	-	2.467	-	-	-	-	-	2.467
Gross/Weapon System Cost	-	-	-	-	-	4.189	-	-	23.072	-	-	33.519	-	-	-	-	-	33.519
Remarks: Unit price decrease from FY 2022 to FY 2024 due to higher quantities ordered. Production Engineering increase from FY 2022 to FY 2024 due to increase in procurement quantities. ^(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION				Item Number / Title [DODIC]: E60011 / NEXT GENERATION BLANK ROUND				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	SIG SAUER, INC. / NEWINGTON, NH	C / FFP	PICATINNY ARSENAL NJ	Aug 2022	Aug 2023	2,501,117	1.58	Y		
COMPLETE ROUND ^(†)		2023	SIG SAUER, INC. / NEWINGTON, NH	Option / FFP	ROCK ISLAND ARMENAL, IL	Mar 2023	Mar 2024	14,805,952	1.47	N		
COMPLETE ROUND ^(†)		2024	SIG SAUER, INC. / NEWINGTON, NH	Option / FFP	PICATINNY ARSENAL NJ	Mar 2024	Mar 2025	40,326,895	0.77	N		

^(†) indicates the presence of a P-21

Remarks:
Unit price decrease from FY 2022 to FY 2024 due to higher quantities ordered.

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION													Item Number / Title [DODIC]: E60011 / NEXT GENERATION BLANK ROUND																			
Cost Elements (Units in Millions, * = < 500)							Fiscal Year 2022													Fiscal Year 2023													B A L A N C E						
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									
COMPLETE ROUND																																							
	1	2022	ARMY	2.501	.000	2.501														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.208	.208	2.084	
	1	2023	ARMY	14.806	.000	14.806																	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.806
	1	2024	ARMY	40.327	.000	40.327																											40.327						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION										Item Number / Title [DODIC]: E60011 / NEXT GENERATION BLANK ROUND													
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2024										Fiscal Year 2025														B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024										Calendar Year 2025																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
COMPLETE ROUND																																	
	1	2022	ARMY	2.501	.417	2.084	.208	.208	.208	.208	.208	.208	.208	.208	.208																		.000
	1	2023	ARMY	14.806	.000	14.806	-	-	-	-	-	1.234	1.234	1.234	1.234	1.234	1.234	1.234	1.234	1.234	1.234	1.234	1.234										.000
	1	2024	ARMY	40.327	.000	40.327						A	-	-	-	-	-	-	-	-	-	-	-	3.361	3.361	3.361	3.361	3.361	3.361	3.361	16.803		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION										Item Number / Title [DODIC]: E60011 / NEXT GENERATION BLANK ROUND													
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2026										Fiscal Year 2027														B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026										Calendar Year 2027																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
COMPLETE ROUND																																	
	1	2022	ARMY	2.501	2.501	.000																											.000
	1	2023	ARMY	14.806	14.806	.000																											.000
	1	2024	ARMY	40.327	23.524	16.803	3.361	3.361	3.361	3.361	3.361																						.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 1065E06001 / NEXT GENERATION SQUAD WEAPON AMMUNITION				Item Number / Title [DODIC]: E60011 / NEXT GENERATION BLANK ROUND			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	SIG SAUER, INC. - NEWINGTON, NH	500,000	3,000,000	9,000,000	6	6	12	18	6	6	12	18

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition							P-1 Line Item Number / Title: 1450EA3000 / CTG, Handgun, All Types					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A					Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	129.540	7.986	0.317	6.597	-	6.597	6.731	6.863	6.999	7.140	-	172.173
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	129.540	7.986	0.317	6.597	-	6.597	6.731	6.863	6.999	7.140	-	172.173
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	129.540	7.986	0.317	6.597	-	6.597	6.731	6.863	6.999	7.140	-	172.173
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description: SSN E96107 / CTG, 9mm Marking, M1041 (Red) is a new start within the CTG, Handgun, All Types program in FY 2024</p> <p>This budget line includes CTG, Handgun, ALL TYPES.</p> <p>(E05210) CTG, 9MM BALL M882 (Combat Pack) cartridge contains a bullet comprised of a copper alloy jacket and a lead alloy core. The cartridge is identified by the plain bullet tip. The ammunition complies with North Atlantic Treaty Organization (NATO) Standard Agreement (STANAG) 4090 and is packed in military type packaging. It is used in the M9 and M11 pistols. This item is Code A, approved for service use.</p> <p>(E05218) CTG, MODULAR HANDGUN SYSTEM (MHS) AMMUNITION for the M17 and M18 (compact version) of the Modular Handgun System consists of four new 9MM cartridges - Ball M1152, Special Purpose M1153, Drill Dummy Inert (DDI) M1156 and Blank XM1157. The Ball cartridge is intended for use against enemy personnel, for training, and for force protection. The Special Purpose cartridge is required for use in situations where limited over-penetration of targets is necessary to reduce collateral damage. DDI cartridges are completely inert, plated and drilled for easy identification and used for training and weapon familiarization. Blank cartridges are used for K-9 training through the use of a weapon adapter kit. These items are type classified, Code A, approved for service use except for Blank XM1157 which is Code B, not approved for service use.</p> <p>(E96105) CTG, 9MM MARKING, M1041 (BLUE) is used for force on force training engagements. The cartridge can be fired with existing M9/M11/MHS pistols and M4 rifles with use of a conversion kit. The M9 kit consists of a replacement barrel only. The M11 kit consists of a replacement barrel and recoil spring guide. The M4 kit consist of a replacement upper receiver for 9mm. A blue enameled portion of the M9, M11, and M4 barrels is visible through the ejection port of the weapons. The projectile leaves a mark upon impact (similar to paintball), enabling after action evaluation of training scenarios. It differs from paintball in that it is a full complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. The M1041 is required to hit targets accurately out to 12 meters. The cartridge has been safety certified to be fired in close proximity at properly protected human subjects. This item is Code A, approved for service use.</p> <p>(E96107) CTG, 9MM MARKING, M1041 (RED) is used for force on force training engagements. The cartridge can be fired with existing M9/M11/MHS pistols, and M4 rifles with use of a conversion kit. The M9 kit consists of a replacement barrel only. The M11 kit consists of a replacement barrel and recoil spring guide. The M4 kit consist of a replacement upper receiver for 9mm. A blue enameled portion of the M9, M11 and M4 barrels is visible through the ejection port of the weapons. The projectile leaves a mark upon impact (similar to paintball), enabling after action evaluation of training scenarios. It differs from</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: 1450EA3000 / CTG, Handgun, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>paintball in that it is a full complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. The M1041 is required to hit targets accurately out to 12 meters. The cartridge has been safety certified to be fired in close proximity at properly protected human subjects. This item is Code A, approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition						P-1 Line Item Number / Title: 1450EA3000 / CTG, Handgun, All Types				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E05210 / CTG, 9mm Ball, M882 (Combat Pack) [A363]		A		- / 84.357	- / 0.017	- / 0.018	- / 0.001	- / -	- / 0.001
P-5	E05218 / CTG, Modular Handgun Ammo	P-5a, P-21	B		- / 38.910	- / 7.682	- / -	- / 6.186	- / -	- / 6.186
P-5	E96105 / CTG, 9mm Marking, M1041 (Blue) [AB13]		A		- / 3.722	- / 0.129	- / 0.299	- / 0.120	- / -	- / 0.120
P-5	E96107 / CTG, 9mm Marking, M1041 (Red) [AB14]		A		- / 2.551	- / 0.158	- / -	- / 0.290	- / -	- / 0.290
P-40	Total Gross/Weapon System Cost				- / 129.540	- / 7.986	- / 0.317	- / 6.597	- / -	- / 6.597
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
<p>Justification:</p> <p>FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense (DoD) Instruction 3000.04 (Munitions Requirements Process) and Army Regulation (AR) 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>FY 2024 Total Base dollars in the amount of \$6.597 million supports the procurement of 25.057 million cartridges.</p> <p>(E05210) CTG 9MM BALL, M882 (Combat Pack) is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base dollars in the amount of \$0.001 million supports the COCOM requirement for procurement of 0.004 million M882 9mm Ball bullets to deter potential adversaries and support European Deterrence Initiative. This is a decrease of \$0.017 million from the FY 2023 enacted level. Type Classification Date: 1985</p> <p>(E05218) CTG MODULAR HANDGUN SYSTEM AMMUNITION is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$6.186 million supports the procurement of 24.378 million 9mm Modular Handgun Ammo XM1152 Ball, Military Pack cartridges. Type Classification Date: M1152/M1153/M156 June 2019; XM1157 Blank pending.</p> <p>(E96105) CTG 9MM MARKING, M1041 (BLUE) is a training unique item not used in combat. FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.120 million supports the procurement of 0.197 million 9mm Marking, M1041 (Blue) cartridges. Type Classification Date: 2009</p> <p>(E96107) CTG, 9MM MARKING, M1041 (RED) is a training unique item not used in combat. FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.290 million supports the procurement of 0.477 million 9mm Marking, M1041 (Red) cartridges. E96107 is a new start in FY 2024. Type Classification Date: 2009</p>										

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: 1450EA3000 / CTG, Handgun, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 1450EA3000 / CTG, Handgun, All Types						Item Number / Title [DODIC]: E05210 / CTG, 9mm Ball, M882 (Combat Pack) [A363]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				84.357		0.017		0.018		0.001		-		0.001				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				84.357		0.017		0.018		0.001		-		0.001				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				84.357		0.017		0.018		0.001		-		0.001				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND	0.16	521,413K	83.629	0.22	68,737	0.015	0.20	63,826	0.013	0.22	4,012	0.001	-	-	-	0.22	4,012	0.001
Subtotal: Recurring Cost	-	-	83.426	-	-	0.015	-	-	0.013	-	-	0.001	-	-	-	-	-	0.001
Subtotal: Hardware Cost	-	-	83.426	-	-	0.015	-	-	0.013	-	-	0.001	-	-	-	-	-	0.001
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.816	-	-	0.002	-	-	0.004	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Support - Production Engineering Cost	-	-	0.816	-	-	0.002	-	-	0.004	-	-	0.000	-	-	-	-	-	0.000
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.010	-	-	-	-	-	0.001	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Support - Quality Assurance Cost	-	-	0.010	-	-	-	-	-	0.001	-	-	0.000	-	-	-	-	-	0.000
Gross/Weapon System Cost	-	-	84.357	-	-	0.017	-	-	0.018	-	-	0.001	-	-	-	-	-	0.001

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 1450EA3000 / CTG, Handgun, All Types						Item Number / Title [DODIC]: E05218 / CTG, Modular Handgun Ammo						
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-		-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				38.910		7.682		-		6.186		-		6.186				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				38.910		7.682		-		6.186		-		6.186				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				38.910		7.682		-		6.186		-		6.186				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	0.19	181,043K	34.467	0.23	28,742,288	6.611	-	-	-	0.23	24,377,968	5.607	-	-	-	0.23	24,377,968	5.607
Subtotal: Recurring Cost	-	-	34.398	-	-	6.611	-	-	-	-	-	5.607	-	-	-	-	-	5.607
Subtotal: Hardware Cost	-	-	34.398	-	-	6.611	-	-	-	-	-	5.607	-	-	-	-	-	5.607
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acceptance Test	-	-	-	-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.003	-	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Environmental Initiatives	-	-	-	-	-	-	-	-	-	-	-	0.038	-	-	-	-	-	0.038
Reliability	-	-	-	-	-	0.030	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	0.030	-	-	-	-	-	0.038	-	-	-	-	-	0.038
Support - Production Engineering Cost																		
Production Engineering	-	-	4.444	-	-	1.011	-	-	-	-	-	0.537	-	-	-	-	-	0.537
Subtotal: Support - Production Engineering Cost	-	-	4.444	-	-	1.011	-	-	-	-	-	0.537	-	-	-	-	-	0.537
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.066	-	-	0.011	-	-	-	-	-	0.004	-	-	-	-	-	0.004

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 1450EA3000 / CTG, Handgun, All Types						Item Number / Title [DODIC]: E05218 / CTG, Modular Handgun Ammo						
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
	Subtotal: Support - Quality Assurance Cost	-	-	0.066	-	-	0.011	-	-	-	-	-	0.004	-	-	-	-	-
Gross/Weapon System Cost	-	-	38.910	-	-	7.682	-	-	-	-	-	6.186	-	-	-	-	-	6.186

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 1450EA3000 / CTG, Handgun, All Types				Item Number / Title [DODIC]: E05218 / CTG, Modular Handgun Ammo				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	OLIN CORPORATION WINCHESTER / OXFORD, MS	C / FFP	ROCK ISLAND ARSENAL, IL	Jul 2022	Sep 2022	28,742,288	0.23	Y		
COMPLETE ROUND ^(†)		2024	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2024	24,377,968	0.23	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 1450EA3000 / CTG, Handgun, All Types										Item Number / Title [DODIC]: E05218 / CTG, Modular Handgun Ammo															
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2022										Fiscal Year 2023													BALANCE					
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT				Calendar Year 2022										Calendar Year 2023															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP				
COMPLETE ROUND																																			
Prior Years Deliveries: 181042629																																			
	1	2022	AF (‡)	10.163	.000	10.163											A -	-	-	.847	.847	.847	.847	.847	.847	.847	.847	.847	.847	.847	.847	.847	.847	.847	.000
	1	2022	ARMY	28.742	.000	28.742											A -	-	2.395	2.395	2.395	2.395	2.395	2.395	2.395	2.395	2.395	2.395	2.395	2.395	2.395	2.395	-	.000	
	1	2022	NAVSEA (‡)	8.500	.000	8.500											A -	-	-	.708	.708	.708	.708	.708	.708	.708	.708	.708	.708	.708	.708	.708	.708	.000	
	1	2022	NSOF (‡)	4.702	.000	4.702											A -	-	-	.392	.392	.392	.392	.392	.392	.392	.392	.392	.392	.392	.392	.392	.000		
	1	2022	Total	52.107	.000	52.107											-	-	2.395	4.342	4.342	4.342	4.342	4.342	4.342	4.342	4.342	4.342	4.342	4.342	4.342	1.947	.000		
	1	2024	AF (‡)	12.009	.000	12.009																											12.009		
	1	2024	ARMY	24.378	.000	24.378																											24.378		
	1	2024	CG (‡)	.904	.000	.904																											.904		
	1	2024	MC (‡)	16.804	.000	16.804																											16.804		
	1	2024	NAVSEA (‡)	6.805	.000	6.805																											6.805		
	1	2024	NSOF (‡)	6.085	.000	6.085																											6.085		
	1	2024	Total	66.985	.000	66.985																											66.985		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 1450EA3000 / CTG, Handgun, All Types										Item Number / Title [DODIC]: E05218 / CTG, Modular Handgun Ammo													
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2024										Fiscal Year 2025												BALANCE				
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024										Calendar Year 2025																
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL		AUG	SEP		
COMPLETE ROUND																																	
Prior Years Deliveries: 181042629																																	
	1	2022	AF (‡)	10.163	10.163	.000																											.000
	1	2022	ARMY	28.742	28.742	.000																											.000
	1	2022	NAVSEA (‡)	8.500	8.500	.000																											.000
	1	2022	NSOF (‡)	4.702	4.702	.000																											.000
	1	2022	Total	52.107	52.107	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000			
	1	2024	AF (‡)	12.009	.000	12.009						A -	-	-	-	-	-	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001		.000			
	1	2024	ARMY	24.378	.000	24.378						A -	-	-	-	-	-	2.032	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031	2.031		.000			
	1	2024	CG (‡)	.904	.000	.904						A -	-	-	-	-	-	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075		.000			
	1	2024	MC (‡)	16.804	.000	16.804						A -	-	-	-	-	-	1.400	1.400	1.400	1.400	1.400	1.400	1.400	1.400	1.400	1.400	1.400		.000			
	1	2024	NAVSEA (‡)	6.805	.000	6.805						A -	-	-	-	-	-	.567	.567	.567	.567	.567	.567	.567	.567	.567	.567	.567		.000			
	1	2024	NSOF (‡)	6.085	.000	6.085						A -	-	-	-	-	-	.507	.507	.507	.507	.507	.507	.507	.507	.507	.507	.507	.507	.000			
	1	2024	Total	66.985	.000	66.985						-	-	-	-	-	-	5.582	5.582	5.582	5.582	5.582	5.582	5.582	5.582	5.582	5.582	5.582	5.582	-	.000		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 1450EA3000 / CTG, Handgun, All Types				Item Number / Title [DODIC]: E05218 / CTG, Modular Handgun Ammo			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	OLIN CORPORATION WINCHESTER - OXFORD, MS	1,000,000	7,500,000	12,000,000	6	6	6	12	6	6	6	12

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 1450EA3000 / CTG, Handgun, All Types						Item Number / Title [DODIC]: E96105 / CTG, 9mm Marking, M1041 (Blue) [AB13]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				3.722		0.129		0.299		0.120		-		0.120				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				3.722		0.129		0.299		0.120		-		0.120				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				3.722		0.129		0.299		0.120		-		0.120				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round	0.58	6,322,728	3.655	0.54	237,481	0.128	0.55	475,100	0.261	0.56	197,461	0.111	-	-	-	0.56	197,461	0.111
Subtotal: Recurring Cost	-	-	3.655	-	-	0.128	-	-	0.261	-	-	0.111	-	-	-	-	-	0.111
Subtotal: Hardware Cost	-	-	3.655	-	-	0.128	-	-	0.261	-	-	0.111	-	-	-	-	-	0.111
Support - Production Engineering Cost																		
Production Engineering	-	-	0.066	-	-	0.001	-	-	0.038	-	-	0.009	-	-	-	-	-	0.009
Subtotal: Support - Production Engineering Cost	-	-	0.066	-	-	0.001	-	-	0.038	-	-	0.009	-	-	-	-	-	0.009
Gross/Weapon System Cost	-	-	3.722	-	-	0.129	-	-	0.299	-	-	0.120	-	-	-	-	-	0.120

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 1450EA3000 / CTG, Handgun, All Types						Item Number / Title [DODIC]: E96107 / CTG, 9mm Marking, M1041 (Red) [AB14]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-					
Gross/Weapon System Cost (<i>\$ in Millions</i>)				2.551		0.158		-		0.290		-		0.290					
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Net Procurement (P-1) (<i>\$ in Millions</i>)				2.551		0.158		-		0.290		-		0.290					
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Total Obligation Authority (<i>\$ in Millions</i>)				2.551		0.158		-		0.290		-		0.290					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-			
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-			
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Hardware Cost																			
Recurring Cost																			
Complete Round	0.59	4,101,993	2.416	0.54	290,868	0.157	-	-	-	0.56	477,199	0.267	-	-	-	0.56	477,199	0.267	
Subtotal: Recurring Cost	-	-	2.416	-	-	0.157	-	-	-	-	-	0.267	-	-	-	-	-	0.267	
Subtotal: Hardware Cost	-	-	2.416	-	-	0.157	-	-	-	-	-	0.267	-	-	-	-	-	0.267	
Support - Production Engineering Cost																			
Production Engineering	-	-	0.135	-	-	0.001	-	-	-	-	-	0.023	-	-	-	-	-	0.023	
Subtotal: Support - Production Engineering Cost	-	-	0.135	-	-	0.001	-	-	-	-	-	0.023	-	-	-	-	-	0.023	
Gross/Weapon System Cost	-	-	2.551	-	-	0.158	-	-	-	-	-	0.290	-	-	-	-	-	0.290	

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition							P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,526.025	132.866	60.189	41.534	-	41.534	44.244	80.137	75.075	94.908	-	3,054.978
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,526.025	132.866	60.189	41.534	-	41.534	44.244	80.137	75.075	94.908	-	3,054.978
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,526.025	132.866	60.189	41.534	-	41.534	44.244	80.137	75.075	94.908	-	3,054.978
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description: SSN E07307 / 50 Caliber Reduce Range Ammunition (RRA) is a new start within the CTG, .50 Cal, All Types program in FY 2024</p> <p>This budget line includes .50 CAL ALL TYPES.</p> <p>(E06700) CTG .50 Caliber M8, Armor Piercing Incendiary (API) Cartridge, packed single round, is used in the M107 and M82A1 Long Range Sniper Rifles. This cartridge is identified with a gray bullet tip. This is used in .50 Caliber Sniper training, a cost-effective training round over the more expensive MK211 Long Range Sniper ammunition, and minimizes training range limitations. This item is Code A, approved for service use.</p> <p>(E06903) CTG .50 Caliber M8/M20 Tracer, Armor Piercing Incendiary (API) linked 4 to 1 in a 100 cartridge belt with the M9 link for use in the M2, M2A1, and M3 Machine Gun. M8 is identified with a gray bullet tip. M20 is identified with a red bullet tip with a gray annulus. This item is Code A, approved for service use.</p> <p>(E07100) CTG .50 Caliber Cartridge Ball M33 is linked in 100 cartridge belts with the M9 link, for use in the M2, M2A1, and M3 Machine Gun. M33 is identified with a plain bullet tip. This item is Code A, approved for service use.</p> <p>(E07200) CTG .50 Caliber Cartridge, Ball M33 and Cartridge, Tracer M17 linked 4 to 1 in a 100 cartridge belt with the M9 link for use in M2, M2A1, and M3 Machine Gun against unarmored targets. The tracer cartridge permits observation of the bullet's trajectory to the point of impact. M17 is identified with a brown bullet tip. M33 is identified with a plain bullet tip. This item is Code A, approved for service use.</p> <p>(E07302) CTG .50 Caliber Blank Cartridge, M1A1 linked in a 100 cartridge belt with the M9 link for use in the M2 and M2A1 Machine Gun. This cartridge is a blank cartridge with a rosette crimp at the mouth used to simulate firing in training exercises in conjunction with the M19 Blank Firing Attachment (BFA). This item is Code A, approved for service use.</p> <p>(E07307) .50 Caliber Reduced Range Cartridges, XM1181/XM1199, are issued in a 100 cartridge belt with the M9 link for use in the M2 machine gun family. These cartridges are conventional small-caliber munitions with a newly designed projectile used for live fire training on ranges with reduced Surface Danger Zones (SDZ). They are intended for training use only and are not suitable for combat. These items are Code B, not approved for service use.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(F88000) .50 Caliber Saboted Light Armor Penetrator (SLAP), M903 cartridge consists of a low-drag, tungsten-alloy penetrator encased in a lightweight plastic sabot loaded into otherwise conventional Caliber .50 cartridge components. The projectile assembly is launched at high velocity and the sabot is discarded shortly after muzzle exit. The companion M962 SLAP-Tracer cartridge is similar in configuration to the M903 except that the penetrator has a cavity containing tracer mix. The M962 provides the precision of delivery necessary to take full advantage of the penetrator cartridge capability. This ammunition is linked to four M903 SLAP to one M962 tracer for use in the M2 Heavy Barrel Machine Gun. The SLAP is used in combat against current and future light armored targets and Armored Attack Helicopters (AAHs). The M903 provides the M2 Machine Gun with a more effective capability against improved armored vehicles increasing penetration of light armor by a factor of two to three times at any given range over that of currently available ammunition. The item is Code A, approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition						P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E06700 / CTG, .50cal API, M8, Single Round [A531]		A		- / 5.677	- / 0.013	- / 0.013	- / 0.001	- / -	- / 0.001
P-5	E06903 / CTG, .50Cal Linked, 4 API M8/1 Tracer M20 w/M9Link		A		- / 397.279	- / -	- / 0.670	- / -	- / -	- / -
P-5	E07100 / CTG, .50cal Ball, M2 w/ M33 Link [A555]	P-5a	A		- / 297.071	- / 3.003	- / 0.181	- / 1.719	- / -	- / 1.719
P-5	E07200 / CTG, .50cal 4 Ball M33 / 1 Tracer M17 w/M9 Link [A557]	P-5a, P-21	A		- / 1,498.471	- / 52.318	- / 41.962	- / 34.136	- / -	- / 34.136
P-5	E07302 / CTG, .50cal Blank, M1A1 w/M9 Link [A598]	P-5a	A		- / 135.386	- / 2.782	- / 5.193	- / 4.678	- / -	- / 4.678
P-5	E07307 / 50 Caliber Reduce Range Ammunition (RRA)	P-5a	B		- / -	- / -	- / -	- / 1.000	- / -	- / 1.000
P-5	F88000 / CTG, .50cal 4 SLAP M903 / 1 SLAP-T M962, w/M9 Link	P-5a			- / 192.141	- / 74.750	- / 12.170	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 2,526.025	- / 132.866	- / 60.189	- / 41.534	- / -	- / 41.534
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
<p>Justification: FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>FY2024 Base Budget supports the Minimum Sustaining Rates at both Lake City Army Ammunition Plant (LCAAP) as well as the Second Source facility in Oxford, MS.</p> <p>FY 2024 Total Base procurement dollars in the amount of \$41.534 million support procurement of 13.312 million rounds in support of the National Defense Strategy and Combatant Command (COCOM) requirements. The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or Foreign Military Sales (FMS) to increase procurement of .50 CAL ALL TYPES when possible.</p> <p>(E06700) CTG .50 Caliber M8, Armor Piercing Incendiary (API) Cartridge is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.001 million support the COCOM requirement for the procurement of 0.001 million .50 Caliber M8 bullets to deter potential adversaries and support European Deterrence Initiative. This is a decrease of \$0.0012 million from the FY 2023 enacted level. Type classification date: 1944</p> <p>(E06903) CTG .50 Caliber M8/M20 Tracer, Armor Piercing Incendiary (API) linked 4 to 1 in a 100 round belt with the M9 link. This is a training standard item used in training and combat. There is no budget request for this item. Type classification date: M8 1944, M17 1950, M20 1953.</p>										

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E07100) CTG .50 Caliber Cartridge Ball M33 is linked in 100 round belts with the M9 link. This is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 procurement dollars in the amount of \$1.538 million support the procurement of 0.506 million .50 Caliber Cartridge Ball M33 Cartridges. FY 2024 Base dollars in the amount of \$0.181 million support the enduring COCOM requirement for procurement of 0.060 million .50 Caliber Cartridge Ball M33 Cartridges to deter potential adversaries and support the European Deterrence Initiative. This is same amount as the FY 2023 enacted level. Type classification date: 1951</p> <p>(E07200) CTG .50 Caliber Cartridge, Ball M33 and Cartridge, Tracer M17 linked 4 to 1 in a 100 round belt with the M9 link. This is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$34.136 million supports the procurement of 10.418 million M33 .50 Caliber Ball Cartridges linked with M17 Tracer Cartridges. Type classification date: 1968</p> <p>(E07302) CTG .50 Caliber Blank Cartridge, M1A1 linked with the M9 link. This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$4.678 million supports the procurement of 2.124 million .50 Caliber Blank Cartridge, M1A1 Cartridges. Type classification date: 1980</p> <p>(E07307).50 Caliber Reduced Range Cartridges - These are training unique items, not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$1.000 million supports the procurement of 0.203 million .50 Caliber Reduced Range Cartridges. E07307 is a new start in FY 2024. Type classification date: Pending 2023</p> <p>(F88000) .50 Caliber Saboted Light Armor Penetrator (SLAP), M903 cartridge. This is a war reserve item used in combat. There is no budget request for this item. TYPE CLASSIFICATION DATE: March 1993</p>		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types						Item Number / Title [DODIC]: E06700 / CTG, .50cal API, M8, Single Round [A531]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				5.677		0.013		0.013		0.001		-		0.001				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				5.677		0.013		0.013		0.001		-		0.001				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				5.677		0.013		0.013		0.001		-		0.001				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round	518.02	10,959	5.677	2.87	2,918	0.008	2.96	2,537	0.008	2.99	322	0.001	-	-	-	2.99	322	0.001
Subtotal: Recurring Cost	-	-	5.677	-	-	0.008	-	-	0.008	-	-	0.001	-	-	-	-	-	0.001
Subtotal: Hardware Cost	-	-	5.677	-	-	0.008	-	-	0.008	-	-	0.001	-	-	-	-	-	0.001
Support - Production Engineering Cost																		
Production Engineering	-	-	0.000	-	-	0.000	-	-	0.001	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	0.001	-	-	0.000	-	-	-	-	-	0.000
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.005	-	-	0.005	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	0.005	-	-	0.005	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	5.677	-	-	0.013	-	-	0.013	-	-	0.001	-	-	-	-	-	0.001
Remarks: The price difference from FY 2022 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges, as well as the Economic Price Adjustment (EPA) allowable on contract in FY 2022 and FY 2023.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types						Item Number / Title [DODIC]: E06903 / CTG, .50Cal Linked, 4 API M8/1 Tracer M20 w/M9Link						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-					
Gross/Weapon System Cost (<i>\$ in Millions</i>)				397.279		-		0.670		-		-		-					
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Net Procurement (P-1) (<i>\$ in Millions</i>)				397.279		-		0.670		-		-		-					
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Total Obligation Authority (<i>\$ in Millions</i>)				397.279		-		0.670		-		-		-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Hardware Cost																			
Recurring Cost																			
COMPLETE ROUND	-	-	397.279	-	-	-	3.18	193,018	0.614	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	397.279	-	-	-	-	-	0.614	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware Cost	-	-	397.279	-	-	-	-	-	0.614	-	-	-	-	-	-	-	-	-	
Support - Production Engineering Cost																			
Production Engineering	-	-	-	-	-	-	-	-	0.054	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	0.054	-	-	-	-	-	-	-	-	-	
Support - Quality Assurance Cost																			
Quality Assurance	-	-	-	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost	-	-	397.279	-	-	-	-	-	0.670	-	-	-	-	-	-	-	-	-	

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types						Item Number / Title [DODIC]: E07100 / CTG, .50cal Ball, M2 w/ M33 Link [A555]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity <i>(Units in Each)</i>				-			-			-			-			-			-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				297.071			3.003			0.181			1.719			-			1.719		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				297.071			3.003			0.181			1.719			-			1.719		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				297.071			3.003			0.181			1.719			-			1.719		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
COMPLETE ROUND ^(†)	40.47	7,288,971	294.997	2.86	1,048,836	3.000	2.74	60,205	0.165	2.77	566,311	1.569	-	-	-	2.77	566,311	1.569			
Subtotal: Recurring Cost	-	-	294.999	-	-	3.000	-	-	0.165	-	-	1.569	-	-	-	-	-	1.569			
Subtotal: Hardware Cost	-	-	294.999	-	-	3.000	-	-	0.165	-	-	1.569	-	-	-	-	-	1.569			
Support - Production Engineering Cost																					
Production Engineering	-	-	2.069	-	-	0.004	-	-	0.016	-	-	0.148	-	-	-	-	-	0.148			
Subtotal: Support - Production Engineering Cost	-	-	2.069	-	-	0.004	-	-	0.016	-	-	0.148	-	-	-	-	-	0.148			
Support - Quality Assurance Cost																					
Quality Assurance	-	-	0.002	-	-	-	-	-	0.000	-	-	0.002	-	-	-	-	-	0.002			
Subtotal: Support - Quality Assurance Cost	-	-	0.002	-	-	-	-	-	0.000	-	-	0.002	-	-	-	-	-	0.002			
Gross/Weapon System Cost	-	-	297.071	-	-	3.003	-	-	0.181	-	-	1.719	-	-	-	-	-	1.719			
Remarks:																					
The price difference from FY 2022 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges, as well as the Economic Price Adjustment (EPA) allowable on contract in FY 2022 and FY 2023.																					
^(†) indicates the presence of a P-5a																					

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types					Item Number / Title [DODIC]: E07100 / CTG, .50cal Ball, M2 w/ M33 Link [A555]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Mar 2023	1,048,836	2.86	Y		
COMPLETE ROUND		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Apr 2024	60,205	2.74	Y		
COMPLETE ROUND		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Apr 2025	566,311	2.77	Y		
Remarks: The price difference from FY 2022 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges, as well as the Economic Price Adjustment (EPA) allowable on contract in FY 2022 and FY 2023.												

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types						Item Number / Title [DODIC]: E07200 / CTG, .50cal 4 Ball M33 / 1 Tracer M17 w/M9 Link [A557]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-						
Gross/Weapon System Cost (<i>\$ in Millions</i>)				1,498.471		52.318		41.962		34.136		-		34.136						
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Net Procurement (P-1) (<i>\$ in Millions</i>)				1,498.471		52.318		41.962		34.136		-		34.136						
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Total Obligation Authority (<i>\$ in Millions</i>)				1,498.471		52.318		41.962		34.136		-		34.136						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
COMPLETE ROUND ^(†)	2.61	559,347K	1,459.048	2.94	17,192,237	50.545	2.96	13,300,526	39.370	3.00	10,418,398	31.255	-	-	-	3.00	10,418,398	31.255		
Subtotal: Recurring Cost	-	-	1,458.778	-	-	50.545	-	-	39.370	-	-	31.255	-	-	-	-	-	31.255		
Subtotal: Hardware Cost	-	-	1,458.778	-	-	50.545	-	-	39.370	-	-	31.255	-	-	-	-	-	31.255		
Support - Acceptance Testing Cost																				
Acceptance Test	-	-	-	-	-	-	-	-	0.117	-	-	0.125	-	-	-	-	-	0.125		
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	0.117	-	-	0.125	-	-	-	-	-	0.125		
Support - Production Engineering Cost																				
Production Engineering	-	-	39.601	-	-	1.769	-	-	2.473	-	-	2.749	-	-	-	-	-	2.749		
Subtotal: Support - Production Engineering Cost	-	-	39.601	-	-	1.769	-	-	2.473	-	-	2.749	-	-	-	-	-	2.749		
Support - Quality Assurance Cost																				
Quality Assurance	-	-	0.092	-	-	0.003	-	-	0.003	-	-	0.007	-	-	-	-	-	0.007		
Subtotal: Support - Quality Assurance Cost	-	-	0.092	-	-	0.003	-	-	0.003	-	-	0.007	-	-	-	-	-	0.007		
Gross/Weapon System Cost	-	-	1,498.471	-	-	52.318	-	-	41.962	-	-	34.136	-	-	-	-	-	34.136		
Remarks:																				

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types	Item Number / Title [DODIC]: E07200 / CTG, .50cal 4 Ball M33 / 1 Tracer M17 w/M9 Link [A557]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<p>The price difference from FY 2022 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges, as well as the Economic Price Adjustment (EPA) allowable on contract in FY 2022 and FY 2023. FY 2022 and FY 2023 complete round is an average unit cost between two contractors. The quantity split will be determined between the two contractors in the year of execution.</p> <p>(t) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types					Item Number / Title [DODIC]: E07200 / CTG, .50cal 4 Ball M33 / 1 Tracer M17 w/M9 Link [A557]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2022	Mar 2023	6,017,283	2.94	Y		
COMPLETE ROUND ^(†)		2022	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	May 2022	Apr 2023	11,174,954	2.94	Y		
COMPLETE ROUND ^(†)		2023	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Feb 2023	Mar 2024	1,995,079	2.96	Y		
COMPLETE ROUND ^(†)		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Apr 2024	11,305,447	2.96	Y		
COMPLETE ROUND ^(†)		2024	OLIN CORPORATION WINCHESTER / OXFORD, MS	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	1,562,760	3.00	Y		
COMPLETE ROUND ^(†)		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Apr 2025	8,855,638	3.00	Y		

^(†) indicates the presence of a P-21

Remarks:
The price difference from FY 2022 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges, as well as the Economic Price Adjustment (EPA) allowable on contract in FY 2022 and FY 2023. FY2022 and FY 2023 complete round is an average unit cost between two contractors. The quantity split will be determined between the two contractors in the year of execution.

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types										Item Number / Title [DODIC]: E07200 / CTG, .50cal 4 Ball M33 / 1 Tracer M17 w/M9 Link [A557]														
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2022										Fiscal Year 2023													B A L A N C E				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022										Calendar Year 2023																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P			
COMPLETE ROUND																																		
Prior Years Deliveries: 559347457																																		
	1	2022	ARMY	6.017	.000	6.017								A -	-	-	-	-	-	-	-	-	-	-	-	.501	.501	.501	.501	.501	.501	.501	2.507	
	2	2022	ARMY	11.175	.000	11.175									A -	-	-	-	-	-	-	-	-	-	-	-	-	.931	.931	.931	.931	.931	.931	5.587
	1	2023	AF (+)	.162	.000	.162																			A -	-	-	-	-	-	-	-	.162	
	1	2023	ARMY	1.995	.000	1.995																			A -	-	-	-	-	-	-	-	1.995	
	1	2023	CG (+)	.012	.000	.012																			A -	-	-	-	-	-	-	-	.012	
	1	2023	NAVSEA (+)	.583	.000	.583																			A -	-	-	-	-	-	-	-	.583	
	1	2023	NSOF (+)	.030	.000	.030																			A -	-	-	-	-	-	-	-	.030	
	1	2023	Total	2.782	.000	2.782																			-	-	-	-	-	-	-	-	2.782	
	2	2023	AF (+)	.918	.000	.918																				A -	-	-	-	-	-	-	-	.918
	2	2023	ARMY	11.305	.000	11.305																				A -	-	-	-	-	-	-	-	11.305
	2	2023	CG (+)	.067	.000	.067																				A -	-	-	-	-	-	-	-	.067
	2	2023	NAVSEA (+)	3.302	.000	3.302																				A -	-	-	-	-	-	-	-	3.302
	2	2023	NSOF (+)	.170	.000	.170																				A -	-	-	-	-	-	-	-	.170
	2	2023	Total	15.763	.000	15.763																				-	-	-	-	-	-	-	-	15.763
	1	2024	ARMY	1.563	.000	1.563																											1.563	
	2	2024	ARMY	8.856	.000	8.856																											8.856	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types										Item Number / Title [DODIC]: E07200 / CTG, .50cal 4 Ball M33 / 1 Tracer M17 w/M9 Link [A557]														
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2024										Fiscal Year 2025														BALANCE			
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024										Calendar Year 2025																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
COMPLETE ROUND																																		
Prior Years Deliveries: 559347457																																		
	1	2022	ARMY	6.017	3.510	2.507	.501	.501	.501	.501	.501																						.000	
	2	2022	ARMY	11.175	5.587	5.587	.931	.931	.931	.931	.931	.931																						.000
	1	2023	AF (‡)	.162	.000	.162	-	-	-	-	-	.014	.013	.013	.013	.013	.013	.013	.013	.013	.013	.013	.013	.013								.000		
	1	2023	ARMY	1.995	.000	1.995	-	-	-	-	-	.166	.166	.166	.166	.166	.166	.166	.166	.166	.166	.166	.166	.166								.000		
	1	2023	CG (‡)	.012	.000	.012	-	-	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*								.000			
	1	2023	NAVSEA (‡)	.583	.000	.583	-	-	-	-	-	.049	.049	.049	.049	.049	.049	.049	.049	.049	.049	.049	.049	.049								.000		
	1	2023	NSOF (‡)	.030	.000	.030	-	-	-	-	-	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002	.002								.000		
	1	2023	Total	2.782	.000	2.782	-	-	-	-	-	.232	.232	.232	.232	.232	.232	.232	.232	.232	.232	.232	.232	.232	-	-	-	-	-	-	-	.000		
	2	2023	AF (‡)	.918	.000	.918	-	-	-	-	-		.076	.076	.076	.076	.076	.076	.076	.076	.076	.076	.076	.076								.000		
	2	2023	ARMY	11.305	.000	11.305	-	-	-	-	-		.942	.942	.942	.942	.942	.942	.942	.942	.942	.942	.942	.942								.000		
	2	2023	CG (‡)	.067	.000	.067	-	-	-	-	-		.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006								.000		
	2	2023	NAVSEA (‡)	3.302	.000	3.302	-	-	-	-	-		.275	.275	.275	.275	.275	.275	.275	.275	.275	.275	.275	.275								.000		
	2	2023	NSOF (‡)	.170	.000	.170	-	-	-	-	-		.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014	.014								.000		
	2	2023	Total	15.763	.000	15.763	-	-	-	-	-		1.314	1.314	1.314	1.314	1.314	1.314	1.314	1.314	1.314	1.314	1.314	1.314	-	-	-	-	-	-	.000			
	1	2024	ARMY	1.563	.000	1.563						A -	-	-	-	-	-	-	-	-	-	-	-	.130	.130	.130	.130	.130	.130	.130	.651			
	2	2024	ARMY	8.856	.000	8.856						A -	-	-	-	-	-	-	-	-	-	-	-	-	.738	.738	.738	.738	.738	.738	.738	4.428		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types													Item Number / Title [DODIC]: E07200 / CTG, .50cal 4 Ball M33 / 1 Tracer M17 w/M9 Link [A557]														
Cost Elements <small>(Units in Millions, * = < 500)</small>							Fiscal Year 2026													Fiscal Year 2027													B A L A N C E	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
COMPLETE ROUND																																		
Prior Years Deliveries: 559347457																																		
	1	2022	ARMY	6.017	6.017	.000																												.000
	2	2022	ARMY	11.175	11.175	.000																												.000
	1	2023	AF (‡)	.162	.162	.000																												.000
	1	2023	ARMY	1.995	1.995	.000																												.000
	1	2023	CG (‡)	.012	.012	.000																												.000
	1	2023	NAVSEA (‡)	.583	.583	.000																												.000
	1	2023	NSOF (‡)	.030	.030	.000																												.000
	1	2023	Total	2.782	2.782	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	2	2023	AF (‡)	.918	.918	.000																												.000
	2	2023	ARMY	11.305	11.305	.000																												.000
	2	2023	CG (‡)	.067	.067	.000																												.000
	2	2023	NAVSEA (‡)	3.302	3.302	.000																												.000
	2	2023	NSOF (‡)	.170	.170	.000																												.000
	2	2023	Total	15.763	15.763	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2024	ARMY	1.563	.912	.651	.130	.130	.130	.130	.130																							.000
	2	2024	ARMY	8.856	4.428	4.428	.738	.738	.738	.738	.738	.738																						.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types				Item Number / Title [DODIC]: E07200 / CTG, .50cal 4 Ball M33 / 1 Tracer M17 w/M9 Link [A557]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	OLIN CORPORATION WINCHESTER - OXFORD, MS	500,000	19,400,000	67,500,000	6	6	12	18	6	6	12	18
2	OLIN WINCHESTER, LLC - LCAAP - INDEPENDENCE, MO	500,000	19,400,000	67,500,000	6	6	18	24	6	6	13	19

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types						Item Number / Title [DODIC]: E07302 / CTG, .50cal Blank, M1A1 w/M9 Link [A598]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				135.386		2.782		5.193		4.678		-		4.678				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				135.386		2.782		5.193		4.678		-		4.678				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				135.386		2.782		5.193		4.678		-		4.678				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	1.06	123,912K	130.970	1.79	1,488,566	2.665	1.93	2,384,683	4.602	1.97	2,124,433	4.185	-	-	-	1.97	2,124,433	4.185
Subtotal: Recurring Cost	-	-	130.975	-	-	2.665	-	-	4.602	-	-	4.185	-	-	-	-	-	4.185
Subtotal: Hardware Cost	-	-	130.975	-	-	2.665	-	-	4.602	-	-	4.185	-	-	-	-	-	4.185
Support - Production Engineering Cost																		
Production Engineering	-	-	4.400	-	-	0.118	-	-	0.584	-	-	0.482	-	-	-	-	-	0.482
Subtotal: Support - Production Engineering Cost	-	-	4.400	-	-	0.118	-	-	0.584	-	-	0.482	-	-	-	-	-	0.482
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.017	-	-	-	-	-	0.007	-	-	0.009	-	-	-	-	-	0.009
Subtotal: Support - Quality Assurance Cost	-	-	0.017	-	-	-	-	-	0.007	-	-	0.009	-	-	-	-	-	0.009
Gross/Weapon System Cost	-	-	135.386	-	-	2.782	-	-	5.193	-	-	4.678	-	-	-	-	-	4.678
Remarks: The price difference from FY 2022 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges, as well as the Economic Price Adjustment (EPA) allowable on contract in FY 2022 and FY 2023.																		
†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types					Item Number / Title [DODIC]: E07302 / CTG, .50cal Blank, M1A1 w/M9 Link [A598]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	May 2022	Apr 2023	1,488,566	1.79	Y		
Complete Round		2023	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Apr 2024	2,384,683	1.93	Y		
Complete Round		2024	OLIN WINCHESTER, LLC - LCAAP / INDEPENDENCE, MO	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Apr 2025	2,124,433	1.97	Y		

Remarks:
The price difference from FY 2022 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges, as well as the Economic Price Adjustment (EPA) allowable on contract in FY 2022 and FY 2023.

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types						Item Number / Title [DODIC]: E07307 / 50 Caliber Reduce Range Ammunition (RRA)								
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-						
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-		-		-		1.000		-		1.000						
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Net Procurement (P-1) (<i>\$ in Millions</i>)				-		-		-		1.000		-		1.000						
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Total Obligation Authority (<i>\$ in Millions</i>)				-		-		-		1.000		-		1.000						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-						
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	4.60	203,061	0.934	-	-	-	4.60	203,061	0.934		
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	0.934	-	-	-	-	-	0.934		
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	0.934	-	-	-	-	-	0.934		
Support - Production Engineering Cost																				
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.066	-	-	-	-	-	0.066		
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	0.066	-	-	-	-	-	0.066		
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000		
(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types				Item Number / Title [DODIC]: E07307 / 50 Caliber Reduce Range Ammunition (RRA)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	203,061	4.60	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types						Item Number / Title [DODIC]: F88000 / CTG, .50cal 4 SLAP M903 / 1 SLAP-T M962, w/M9 Link						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				192.141		74.750		12.170		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				192.141		74.750		12.170		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				192.141		74.750		12.170		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	192.141	43.76	1,708,200	74.751	30.00	405,666	12.170	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	192.141	-	-	74.751	-	-	12.170	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	192.141	-	-	74.751	-	-	12.170	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	192.141	-	-	74.750	-	-	12.170	-	-	-	-	-	-	-	-	-
Remarks: FY2022 unit cost included cost to reestablish production capability not used since 2012. ^(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 1722E08000 / CTG, .50 Cal, All Types					Item Number / Title [DODIC]: F88000 / CTG, .50cal 4 SLAP M903 / 1 SLAP-T M962, w/M9 Link			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	TO BE SELECTED / TBS01	SS / UCA	ROCK ISLAND ARSENAL, IL	Mar 2023	Jun 2024	1,708,200	43.76	Y		
COMPLETE ROUND		2023	TO BE SELECTED / TBS01	SS / UCA	ROCK ISLAND ARSENAL, IL	Mar 2023	Jun 2024	405,666	30.00	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition							P-1 Line Item Number / Title: 2382E08900 / CTG, 20mm, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	219.812	4.371	21.761	7.925	-	7.925	3.620	3.720	3.788	3.857	-	268.854
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	219.812	4.371	21.761	7.925	-	7.925	3.620	3.720	3.788	3.857	-	268.854
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	219.812	4.371	21.761	7.925	-	7.925	3.620	3.720	3.788	3.857	-	268.854
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	77.87	71.43	-	71.43	-	-	-	-	-	688.66
Description: This budget line includes 20MM ALL TYPES: (E08909) The 20MM M940 Multi-Purpose Tracer - Self-Destruct (MPT-SD) cartridge, w/ MK7 Link, is an improved, pyrotechnically initiated, 20mm High Explosive cartridge. The nose consists of of a single tungsten penetrator tip designed to pierce incoming threats prior to initiation. The projectile consists of a heavy walled steel body charged with an explosive mix and an incendiary mix. The M940 is a force protection munition fired from the M61 cannon used within the Land Based Phalanx Weapon System (LPWS) for Counter-Rocket, Artillery and Mortar (C-RAM) application. The projectile self-destructs if it misses its intended target, minimizing collateral surface damage when engaging airborne targets. The M940 (JUONs) has been enhanced for improved lethality against larger rocket threats. This item is Code A, approved for service use. (E08910) The 20MM M55A2 Target Practice (TP) Cartridge is a ballistically matched training round that simulates the tactical 20MM M56 High Explosive Incendiary (HEI) Cartridge. The Land Based Phalanx Weapon System (LPWS) is able to adjust ballistics to account for differences between M940 and M55A2. M55A2 supports training on the M61 cannon used within the LPWS for Counter-Rocket, Artillery and Mortar (C-RAM) application. This item is Code A, approved for service use.												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition						P-1 Line Item Number / Title: 2382E08900 / CTG, 20mm, All Types				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E08909 / CTG, 20mm MPT-SD, M940 w/MK7 Link [AC34]	P-5a	A		- / 219.812	- / 4.371	- / 11.761	- / 3.677	- / -	- / 3.677
P-5	E08910 / Cartridge, 20MM, Practice	P-5a	A		- / -	- / -	279,451 / 10.000	110,950 / 4.248	- / -	110,950 / 4.248
P-40	Total Gross/Weapon System Cost				- / 219.812	- / 4.371	- / 21.761	- / 7.925	- / -	- / 7.925
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
<p>Justification: FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>FY 2024 Total Base procurement dollars in the amount of \$7.925 million support procurement of 0.132 million cartridges.</p> <p>(E08909) The 20MM M940 Multi-Purpose Tracer - Self-Destruct (MPT-SD) is a war reserve item used in combat. The FY 2024 request builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$3.677 million support procurement of 0.021 million M940 cartridges. Type classification date: 1989</p> <p>(E08910) The 20MM M55A2 Target Practice (TP) Cartridge is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$4.248 million support the procurement of 0.111 million M55A2 cartridges. Type classification date: TBD</p>										

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 2382E08900 / CTG, 20mm, All Types						Item Number / Title [DODIC]: E08909 / CTG, 20mm MPT-SD, M940 w/ MK7 Link [AC34]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				219.812		4.371		11.761		3.677		-		3.677					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				219.812		4.371		11.761		3.677		-		3.677					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				219.812		4.371		11.761		3.677		-		3.677					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Hardware Cost																			
Recurring Cost																			
LOAD, ASSEMBLE, PACK (LAP) ^(†)	36.05	5,509,446	198.591	60.73	54,141	3.288	109.37	92,444	10.111	116.87	20,742	2.424	-	-	-	116.87	20,742	2.424	
BOX METAL M548 ^(†)	46.11	13,608	0.627	57.38	552	0.032	53.57	943	0.051	57.48	211	0.012	-	-	-	57.48	211	0.012	
Subtotal: Recurring Cost	-	-	199.221	-	-	3.320	-	-	10.161	-	-	2.436	-	-	-	-	-	2.436	
Subtotal: Hardware Cost	-	-	199.221	-	-	3.320	-	-	10.161	-	-	2.436	-	-	-	-	-	2.436	
Support - Acceptance Testing Cost																			
Acceptance Test	-	-	-	-	-	-	-	-	0.010	-	-	0.012	-	-	-	-	-	0.012	
First Article Test	-	-	-	-	-	-	-	-	-	-	-	0.925	-	-	-	-	-	0.925	
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	0.010	-	-	0.937	-	-	-	-	-	0.937	
Support - Product Improvement Cost																			
Reliability	-	-	1.777	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Safety	-	-	4.651	-	-	0.045	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Product Improvement Cost	-	-	6.428	-	-	0.045	-	-	-	-	-	-	-	-	-	-	-	-	
Support - Production Engineering Cost																			
Production Engineering	-	-	14.112	-	-	0.999	-	-	1.586	-	-	0.300	-	-	-	-	-	0.300	
Subtotal: Support - Production Engineering Cost	-	-	14.112	-	-	0.999	-	-	1.586	-	-	0.300	-	-	-	-	-	0.300	
Support - Quality Assurance Cost																			

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Exhibit P-5, Cost Analysis: PB 2024 Army					Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: 2382E08900 / CTG, 20mm, All Types			Item Number / Title [DODIC]: E08909 / CTG, 20mm MPT-SD, M940 w/ MK7 Link [AC34]			
ID Code (A=Service Ready, B=Not Service Ready) : A			MDAP/MAIS Code:						

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Quality Assurance	-	-	0.051	-	-	0.007	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Subtotal: Support - Quality Assurance Cost	-	-	0.051	-	-	0.007	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Gross/Weapon System Cost	-	-	219.812	-	-	4.371	-	-	11.761	-	-	3.677	-	-	-	-	-	3.677

Remarks:
Ammunition costs are increasing greater than the historical inflation rates of 2-3%, due to significant increases to metals and manufacturing labor costs.

FY 2023 award is projected to be split between two vendors, resulting in a price increase from FY 2022 to FY 2023.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 2382E08900 / CTG, 20mm, All Types					Item Number / Title [DODIC]: E08909 / CTG, 20mm MPT-SD, M940 w/ MK7 Link [AC34]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	NORTHROP GRUMMAN INNOVATION / PLYMOUTH, MN	Option / FFP	ROCK ISLAND ARSENAL, IL	Jan 2022	Apr 2023	54,141	60.73	Y		
LOAD, ASSEMBLE, PACK (LAP)		2023	NORTHROP GRUMMAN INNOVATION / PLYMOUTH, MN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	46,222	109.37	Y		
LOAD, ASSEMBLE, PACK (LAP)		2023	GENERAL DYNAMICS ORD & TAC / MARION, IL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	46,222	109.37	Y		
LOAD, ASSEMBLE, PACK (LAP)		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	10,371	116.87	Y		
LOAD, ASSEMBLE, PACK (LAP)		2024	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	10,371	116.87	Y		
BOX METAL M548		2022	CONCO INC. / LOUISVILLE, KY	Option / FFP	ROCK ISLAND ARSENAL, IL	Jul 2022	Nov 2022	552	57.38	Y		
BOX METAL M548		2023	CONCO INC. / LOUISVILLE, KY	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Nov 2023	943	53.57	Y		
BOX METAL M548		2024	CONCO INC. / LOUISVILLE, KY	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Nov 2024	211	57.48	Y		
Remarks: This item is part of a combined 20mm, 25mm, & 30mm contract. Quantity split will be determined between two contractors in the year of execution.												

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 2382E08900 / CTG, 20mm, All Types						Item Number / Title [DODIC]: E08910 / Cartridge, 20MM, Practice							
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity <i>(Units in Each)</i>				-		-		279,451		110,950		-		110,950					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		-		10.000		4.248		-		4.248					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P-1) <i>(\$ in Millions)</i>				-		-		10.000		4.248		-		4.248					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Total Obligation Authority <i>(\$ in Millions)</i>				-		-		10.000		4.248		-		4.248					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		35.78		38.29		-		38.29					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements		Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																			
Recurring Cost																			
LOAD, ASSEMBLE, PACK (LAP) ^(†)		-	-	-	-	-	-	23.08	388,425	8.965	23.08	110,950	2.561	-	-	-	23.08	110,950	2.561
BOX METAL M548 ^(†)		-	-	-	-	-	-	53.57	3,923	0.210	57.48	1,131	0.065	-	-	-	57.48	1,131	0.065
Subtotal: Recurring Cost		-	-	-	-	-	-	-	-	9.175	-	-	2.626	-	-	-	-	-	2.626
Subtotal: Hardware Cost		-	-	-	-	-	-	-	-	9.175	-	-	2.626	-	-	-	-	-	2.626
Support - Acceptance Testing Cost																			
Acceptance Test		-	-	-	-	-	-	-	-	-	-	-	0.012	-	-	-	-	-	0.012
First Article Test		-	-	-	-	-	-	-	-	0.255	-	-	0.255	-	-	-	-	-	0.255
Subtotal: Support - Acceptance Testing Cost		-	-	-	-	-	-	-	-	0.255	-	-	0.267	-	-	-	-	-	0.267
Support - Production Engineering Cost																			
Production Engineering		-	-	-	-	-	-	-	-	0.563	-	-	1.352	-	-	-	-	-	1.352
Subtotal: Support - Production Engineering Cost		-	-	-	-	-	-	-	-	0.563	-	-	1.352	-	-	-	-	-	1.352
Support - Quality Assurance Cost																			
Quality Assurance		-	-	-	-	-	-	-	-	0.007	-	-	0.004	-	-	-	-	-	0.004
Subtotal: Support - Quality Assurance Cost		-	-	-	-	-	-	-	-	0.007	-	-	0.004	-	-	-	-	-	0.004
Gross/Weapon System Cost		-	-	-	-	-	-	35.78	279,451	10.000	38.29	110,950	4.248	-	-	-	38.29	110,950	4.248

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: 2382E08900 / CTG, 20mm, All Types	Item Number / Title [DODIC]: E08910 / Cartridge, 20MM, Practice
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 2382E08900 / CTG, 20mm, All Types				Item Number / Title [DODIC]: E08910 / Cartridge, 20MM, Practice				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2023	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Sep 2023	Sep 2024	388,425	23.08	Y		
LOAD, ASSEMBLE, PACK (LAP)		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	110,950	23.08	Y		
BOX METAL M548		2023	CONCO INC. / LOUISVILLE, KY	Option / FFP	ROCK ISLAND ARSENAL, IL	Sep 2023	May 2024	3,923	53.57	Y		
BOX METAL M548		2024	CONCO, INC. / LOUISVILLE, KY	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Nov 2024	1,131	57.53	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition							P-1 Line Item Number / Title: 2650E08200 / CTG, 25mm, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	442.340	-	6.847	38.760	-	38.760	37.306	38.028	38.778	39.543	-	641.602
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	442.340	-	6.847	38.760	-	38.760	37.306	38.028	38.778	39.543	-	641.602
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	442.340	-	6.847	38.760	-	38.760	37.306	38.028	38.778	39.543	-	641.602
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: SSN E08209 / CTG, 25mm Dummy (DDI), M794 is a new start within the CTG, 25mm, All Types program in FY 2024 This budget line includes 25MM ALL TYPES: (E08204) The 25MM M910 Target Practice Discarding Sabot-Tracer (TPDS-T) cartridge is a ballistically matched training round that simulates the M791 25MM Armor Piercing Discarding Sabot-Tracer (APDS-T) cartridge. The M910 is also used as a training counterpart for the M919 25MM Armor Piercing Discarding Sabot Fin Stabilized-Traced (APDSFS-T) cartridge, although the M910 cannot simulate the range of the M919. The M910 supports gunnery training for the Army's Bradley Fighting Vehicles and Marine Corps' Light Armored Vehicles. The M910 is a percussion primed round, packed in linked belts of 30 cartridges per PA125 container. The M28 metal link is used to belt M910 cartridges. This item is Code A, approved for service use. (E08209) The 25MM M794 is an inert training device. It physically mimics 25mm M792, M793, MK210, PGU-23 and PGU-25 ammunition. It is used for training of proper handling and loading of ammunition and for non-firing system training and checkout of 25mm weapons prior to exposing soldiers to live ammunition. This item is Code A, approved for service use.												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition						P-1 Line Item Number / Title: 2650E08200 / CTG, 25mm, All Types				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E08204 / CTG 25MM TPDS-T M910 [A940]	P-5a, P-21	A		- / 430.722	- / -	- / 6.847	- / 36.611	- / -	- / 36.611
P-5	E08209 / CTG, 25mm Dummy (DDI), M794 [A967]	P-5a	A		- / 11.618	- / -	- / -	- / 2.149	- / -	- / 2.149
P-40	Total Gross/Weapon System Cost				- / 442.340	- / -	- / 6.847	- / 38.760	- / -	- / 38.760
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
<p>Justification: FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>FY 2024 Total Base dollars in the amount of \$38.760 million supports the procurement of 0.508 million cartridges.</p> <p>(E08204) The 25MM M910 Target Practice Discarding Sabot-Tracer (TPDS-T) cartridge is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$36.611 million supports the procurement of 0.459 million M910 cartridges. Type classification date: 1988</p> <p>(E08209) CTG 25MM DUMMY M794 is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$2.149 million supports 0.049 million M794 cartridges. E08209 is a new start in FY 2024. Type classification date: 1982</p>										

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 2650E08200 / CTG, 25mm, All Types						Item Number / Title [DODIC]: E08204 / CTG 25MM TPDS-T M910 [A940]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				430.722		-		6.847		36.611		-		36.611				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				430.722		-		6.847		36.611		-		36.611				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				430.722		-		6.847		36.611		-		36.611				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	46.07	9,289,896	427.960	-	-	-	68.06	85,170	5.797	69.46	459,436	31.912	-	-	-	69.46	459,436	31.912
CONTAINER PA125 ^(†)	68.63	21,202	1.455	-	-	-	140.23	2,878	0.404	152.52	15,528	2.368	-	-	-	152.52	15,528	2.368
Subtotal: Recurring Cost	-	-	429.413	-	-	-	-	-	6.200	-	-	34.281	-	-	-	-	-	34.281
Subtotal: Hardware Cost	-	-	429.413	-	-	-	-	-	6.200	-	-	34.281	-	-	-	-	-	34.281
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	0.009	-	-	-	-	-	0.009
First Article Test	-	-	0.483	-	-	-	-	-	-	-	-	0.429	-	-	-	-	-	0.429
Subtotal: Support - Acceptance Testing Cost	-	-	0.483	-	-	-	-	-	-	-	-	0.438	-	-	-	-	-	0.438
Support - Production Engineering Cost																		
Production Engineering	-	-	0.810	-	-	-	-	-	0.645	-	-	1.889	-	-	-	-	-	1.889
Subtotal: Support - Production Engineering Cost	-	-	0.810	-	-	-	-	-	0.645	-	-	1.889	-	-	-	-	-	1.889
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.016	-	-	-	-	-	0.002	-	-	0.003	-	-	-	-	-	0.003
Subtotal: Support - Quality Assurance Cost	-	-	0.016	-	-	-	-	-	0.002	-	-	0.003	-	-	-	-	-	0.003
Gross/Weapon System Cost	-	-	430.722	-	-	-	-	-	6.847	-	-	36.611	-	-	-	-	-	36.611

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: 2650E08200 / CTG, 25mm, All Types	Item Number / Title [DODIC]: E08204 / CTG 25MM TPDS-T M910 [A940]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Remarks: This item was last procured in FY 2018 for a much higher quantity in a lower price range. The lower FY 2023 quantity will be in a higher price range on the contract. (t) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 2650E08200 / CTG, 25mm, All Types					Item Number / Title [DODIC]: E08204 / CTG 25MM TPDS-T M910 [A940]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2023	NORTHROP GRUMMAN INNOVATION / PLYMOUTH, MN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	42,585	68.06	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2023	GENERAL DYNAMICS ORD & TAC / MARION, IL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	42,585	68.06	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	229,718	69.46	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2024	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	229,718	69.46	Y		
CONTAINER PA125		2023	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Nov 2023	2,878	140.23	Y		
CONTAINER PA125		2024	TO BE SELECTED / TBS01	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Nov 2024	15,528	152.52	Y		

^(†) indicates the presence of a P-21

Remarks:
This item is part of a combined 20mm, 25mm, & 30mm contract. Quantity split will be determined between two contractors in the year of execution.

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023																						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 2650E08200 / CTG, 25mm, All Types															Item Number / Title [DODIC]: E08204 / CTG 25MM TPDS-T M910 [A940]																							
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2023												Fiscal Year 2024												B A L A N C E														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024																										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P															
LOAD, ASSEMBLE, PACK (LAP)																																													
Prior Years Deliveries: 9289896																																													
	2	2023	ARMY	42.585	.000	42.585						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.549	3.549	3.549	3.549	3.549	3.549	3.549	17.742						
	2	2023	MC ^(†)	12.026	.000	12.026						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.004	1.002	1.002	1.002	1.002	1.002	1.002	5.010					
	2	2023	Total	54.611	.000	54.611						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.553	4.551	4.551	4.551	4.551	4.551	4.551	22.752					
	3	2023	ARMY	42.585	.000	42.585						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.549	3.549	3.549	3.549	3.549	3.549	3.549	17.742				
	3	2023	MC ^(†)	12.026	.000	12.026						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.004	1.002	1.002	1.002	1.002	1.002	1.002	5.010				
	3	2023	Total	54.611	.000	54.611						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.553	4.551	4.551	4.551	4.551	4.551	4.551	22.752				
	1	2024	ARMY	229.718	.000	229.718																A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	229.718			
	1	2024	MC ^(†)	68.816	.000	68.816																A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68.816		
	1	2024	Total	298.534	.000	298.534																-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	298.534	
	4	2024	ARMY	229.718	.000	229.718																A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	229.718
	4	2024	MC ^(†)	68.816	.000	68.816																A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68.816	
	4	2024	Total	298.534	.000	298.534																-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	298.534	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P															

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30											P-1 Line Item Number / Title: 2650E08200 / CTG, 25mm, All Types												Item Number / Title [DODIC]: E08204 / CTG 25MM TPDS-T M910 [A940]											
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2025												Fiscal Year 2026												B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
LOAD, ASSEMBLE, PACK (LAP)																																		
Prior Years Deliveries: 9289896																																		
	2	2023	ARMY	42.585	24.843	17.742	3.549	3.549	3.548	3.548	3.548																							.000
	2	2023	MC ^(†)	12.026	7.016	5.010	1.002	1.002	1.002	1.002	1.002																							.000
	2	2023	Total	54.611	31.859	22.752	4.551	4.551	4.550	4.550	4.550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000			
	3	2023	ARMY	42.585	24.843	17.742	3.549	3.549	3.548	3.548	3.548																							.000
	3	2023	MC ^(†)	12.026	7.016	5.010	1.002	1.002	1.002	1.002	1.002																							.000
	3	2023	Total	54.611	31.859	22.752	4.551	4.551	4.550	4.550	4.550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000			
	1	2024	ARMY	229.718	.000	229.718	-	-	-	-	-	19.145	19.143	19.143	19.143	19.143	19.143	19.143	19.143	19.143	19.143	19.143						.000						
	1	2024	MC ^(†)	68.816	.000	68.816	-	-	-	-	-	5.742	5.734	5.734	5.734	5.734	5.734	5.734	5.734	5.734	5.734	5.734						.000						
	1	2024	Total	298.534	.000	298.534	-	-	-	-	-	24.887	24.877	24.877	24.877	24.877	24.877	24.877	24.877	24.877	24.877	24.877	-	-	-	-	-	-	-	-	.000			
	4	2024	ARMY	229.718	.000	229.718	-	-	-	-	-	19.145	19.143	19.143	19.143	19.143	19.143	19.143	19.143	19.143	19.143	19.143						.000						
	4	2024	MC ^(†)	68.816	.000	68.816	-	-	-	-	-	5.742	5.734	5.734	5.734	5.734	5.734	5.734	5.734	5.734	5.734	5.734						.000						
	4	2024	Total	298.534	.000	298.534	-	-	-	-	-	24.887	24.877	24.877	24.877	24.877	24.877	24.877	24.877	24.877	24.877	24.877	-	-	-	-	-	-	-	-	.000			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 2650E08200 / CTG, 25mm, All Types				Item Number / Title [DODIC]: E08204 / CTG 25MM TPDS-T M910 [A940]				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	TO BE SELECTED - TBS01	20,000	100,000	125,000	6	6	12	18	6	6	12	18	
2	NORTHROP GRUMMAN INNOVATION - PLYMOUTH, MN	20,000	100,000	125,000	6	6	12	18	6	6	12	18	
3	GENERAL DYNAMICS ORD & TAC - MARION, IL	20,000	100,000	125,000	6	6	12	18	6	6	12	18	
4	TO BE SELECTED - TBS02	20,000	100,000	125,000	6	6	12	18	6	6	12	18	
Remarks: LAP LINE SHARED WITH OTHER 25MM ITEMS. QUARTERLY DELIVERIES.													
(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule. "A" in the Delivery Schedule indicates the Contract Award Date. Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).													

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 2650E08200 / CTG, 25mm, All Types						Item Number / Title [DODIC]: E08209 / CTG, 25mm Dummy (DDI), M794 [A967]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				11.618		-		-		2.149		-		2.149				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				11.618		-		-		2.149		-		2.149				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				11.618		-		-		2.149		-		2.149				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	11.618	-	-	-	-	-	-	32.57	48,810	1.590	-	-	-	32.57	48,810	1.590
CONTAINER PA125 ^(†)	-	-	-	-	-	-	-	-	-	152.52	1,649	0.252	-	-	-	152.52	1,649	0.252
Subtotal: Recurring Cost	-	-	11.618	-	-	-	-	-	-	-	-	1.841	-	-	-	-	-	1.841
Subtotal: Hardware Cost	-	-	11.618	-	-	-	-	-	-	-	-	1.841	-	-	-	-	-	1.841
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	-	-	-	0.160	-	-	-	-	-	0.160
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	-	-	-	0.160	-	-	-	-	-	0.160
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.144	-	-	-	-	-	0.144
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	0.144	-	-	-	-	-	0.144
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.004	-	-	-	-	-	0.004
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	-	-	-	-	-	-	0.004	-	-	-	-	-	0.004
Gross/Weapon System Cost	-	-	11.618	-	-	-	-	-	-	-	-	2.149	-	-	-	-	-	2.149

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: 2650E08200 / CTG, 25mm, All Types	Item Number / Title [DODIC]: E08209 / CTG, 25mm Dummy (DDI), M794 [A967]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<div>(†) indicates the presence of a P-5a</div>		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 2650E08200 / CTG, 25mm, All Types					Item Number / Title [DODIC]: E08209 / CTG, 25mm Dummy (DDI), M794 [A967]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	48,810	32.57	Y		
CONTAINER PA125		2024	TO BE SELECTED / TBS01	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Nov 2024	1,649	152.52	Y		

Remarks:
This item is part of a combined 20mm, 25mm, & 30mm contract. Quantity split will be determined between two contractors in the year of execution.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition							P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,723.101	45.450	137.209	107.805	-	107.805	107.925	109.114	108.721	109.786	-	2,449.111
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,723.101	45.450	137.209	107.805	-	107.805	107.925	109.114	108.721	109.786	-	2,449.111
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,723.101	45.450	137.209	107.805	-	107.805	107.925	109.114	108.721	109.786	-	2,449.111
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This budget line includes 30MM ALL TYPES: (E07306) 30x173mm MK239 Target Practice with Tracer (TP-T) cartridge is a Navy qualified training cartridge that is ballistically matched to the MK238 HEI-T. The Army completed the safety qualification of the MK239, which supported the Urgent Materiel Release (UMR) for the Stryker Infantry Carrier Vehicle, in support of the United States Army Europe (USAREUR) Operational Needs Statement (ONS) #15-20590 Stryker Increased Lethality for the 2nd Cavalry Regiment (2CR). As a follow-on to the earlier UMR round, the program has transitioned to the Program of Record (POR), the 30x173mm XM1173 Target Practice with Trace (TP-T) cartridge, which is ballistically matched to the tactical round, the XM1182 HEAB-T cartridge, allowing the Warfighter to train in a realistic, cost effective manner. This item is Code B, not approved for service use. (E07406) 30x173mm MK238 High Explosive Incendiary with Tracer (HEI-T) cartridge is a Navy qualified tactical cartridge consisting of a steel projectile body assembly crimped into an aluminum cartridge case, PBXN-5 explosive, a zirconium pellet, M758-LD fuze, a tracer, AFP-001 propellant, and an M36A2 percussion primer. The MK238 cartridges are packed 30 cartridges per M592 container. The Army has completed the safety qualification of the MK238 which supported the Urgent Materiel Release for the Stryker Infantry Carrier Vehicle. This item is Code B, not approved for service use. (E07610) 30x173mm MK310 Programmable Air Burst Munition with Tracer (PABM-T) cartridge is a Navy qualified tactical high explosive cartridge that has three different ways of functioning, which include point detonate, point detonation delay, and air burst, and also has a self-destruct feature if the projectile misses its intended target. The Army completed the safety qualification of the MK310, which supported the Urgent Materiel Release (UMR) for the Stryker Infantry Carrier Vehicle, in support of the United States Army Europe (USAREUR) Operational Needs Statement (ONS) #15-20590 Stryker Increased Lethality for the 2nd Cavalry Regiment (2CR). As a follow-on to the earlier UMR round, the program will transition to the Program of Record (POR), the 30x173mm XM1182 High Explosive Airburst with Trace (HEAB-T), which will provide the Warfighter with increased anti-personnel lethality effects against troops in the open and behind urban structures, counter defilade capability, and Anti-Tank Guided Missile (ATGM) capability, enhancing the operational effectiveness and lethality of the Stryker Infantry Carrier Vehicle (ICV) and any Army Fighting Vehicles that are equipped with a 30x173mm weapon system. This item is Code B, not approved for service use. (E09191) 30x173mm MK317 is a Target Practice Discarding Sabot with Tracer (TPDS-T) cartridge. The Army completed the safety qualification of the MK317, which supported the Urgent Materiel Release (UMR) for the Stryker Infantry Carrier Vehicle, in support of the United States Army Europe (USAREUR) Operational Needs Statement (ONS) #15-20590 Stryker Increased Lethality for the 2nd Cavalry Regiment (2CR). As a follow-on to the earlier UMR round, the program will transition to the Program of Record (POR), the 30x173mm XM1172 Target Practice Discarding Sabot with Trace (TPDS-T) cartridge, which is												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types	
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A		Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			
ballistically matched to the tactical round, the XM1170 Armor Piercing Fin Stabilized Discarding Sabot with Trace (APFSDS-T) cartridge, allowing the Warfighter to train in a realistic, cost effective manner. This item is Code B, not approved for service use.			
(E09292) 30x173mm MK258 Armor Piercing Fin Stabilized Discarding Sabot with Tracer (APFSDS-T) cartridge is a Navy qualified tactical cartridge. The Army completed the safety qualification of the MK258, which supported the Urgent Materiel Release (UMR) for the Stryker Infantry Carrier Vehicle, in support of the United States Army Europe (USAREUR) Operational Needs Statement (ONS) #15-20590 Stryker Increased Lethality for the 2nd Cavalry Regiment (2CR). As a follow-on to the earlier UMR round, the program will transition to the Program of Record (POR), the 30x173mm XM1170 Armor Piercing Fin Stabilized Discarding Sabot with Trace (APFSDS-T) cartridge, which will provide an organic direct fire capability to support infantry at a greater range and will improve lethality when engaging light-to-medium armored vehicles, increasing anti-materiel capability and enhancing the operational effectiveness and lethality of the Stryker Infantry Carrier Vehicle (ICV) and any Army Fighting Vehicles that are equipped with a 30x173mm weapon system. This item is Code B, not approved for service use.			
(E09900) 30mm M789 High Explosive Dual Purpose (HEDP) cartridge is the only qualified combat cartridge for use in the Apache Helicopter's M230 Chain Gun. It is also used by the 160th Special Operations Aviation Regiment (SOAR), fired from the MH-60L Blackhawk helicopter. The M789 cartridge consists of a projectile containing explosive, a shaped charge liner, an M759 point-detonating fuze, aluminum cartridge case, propellant and a PA520 electric primer. The shaped charge allows the M789 to defeat light armor, and the steel projectile body provides an anti-personnel capability. M789 cartridges are packed in Bulk Ammunition Strips (BAS), 110 cartridges per M592 container. This item is Code A, approved for service use. 30mm XM1198 High Explosive Dual Purpose with Self Destruct (HEDP-SD) cartridge is a qualified combat cartridge for use in the XM914E1 Chain Gun with Percussion Prime Kit used on the Mobile Low, slow, small Intercept and Defeat System (MLIDS) ground vehicle platforms in response to Joint Urgent Operational Need (JUON) CC-0558, ONS 22-38522, and ONS 22-38528, and a Directed Requirement for Initial Maneuver Short Range Air Defense (IM-SHORAD) platforms. The XM1198 cartridge consists of a projectile containing explosive, a shaped charge liner, an XM1169 point-detonating, self destructing fuze, aluminum cartridge case, propellant and an M36A2 percussion primer. The shaped charge allows the XM1198 to defeat light armor, and the steel projectile body provides an anti-personnel and Counter Unmanned Aerial Systems defeat capability. The self destruct fuze allows for reduced collateral damage when engaging aerial targets. XM1198 cartridges are packed in a linked assembly with 72 cartridges per M592 container. This item is Code B, not approved for service use.			
(E10100) 30mm M788 Target Practice (TP) cartridge is the only qualified training cartridge for use in the Apache and Blackhawk Helicopter's M230 Chain Gun. The M788 is a ballistic match to the M789 HEDP and consists of an inert projectile, lightweight aluminum cartridge case, propellant, and PA520 electric primer. M788 cartridges are packed in Bulk Ammunition Strips (BAS), 110 cartridges per M592 container. This item is Code A, approved for service use. 30mm XM950 Target Practice (TP) cartridge is the only qualified training cartridge for use in the XM914E1 Chain Gun with Percussion Prime Kit used on the Mobile Low, slow, small Intercept and Defeat System (MLIDS) ground vehicle platforms in response to Joint Urgent Operational Need (JUON) CC-0558, ONS 22-38522, and ONS 22-38528, and a Directed Requirement for Initial Maneuver Short Range Air Defense (IM-SHORAD) platforms. The XM950 is a ballistic match to the XM1198 HEDP-SD and consists of an inert projectile, lightweight aluminum cartridge case, propellant, and PA520 electric primer. XM950 cartridges are packed in a linked assembly with 72 cartridges per M592 container. This item is Code B, not approved for service use.			

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army							Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition					P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E07306 / CTG, 30mm TP-T, MK239, Single [AC72]	P-5a, P-21	B		- / 38.201	- / 0.826	- / 30.439	- / 24.582	- / -	- / 24.582
P-5	E07406 / CTG, 30mm Hi Expl Incendry-T(HEI-T), Mk238 Series [AC27]	P-5a	B		- / 39.619	- / -	- / 8.603	- / 0.406	- / -	- / 0.406
P-5	E07610 / CTG, 30MM, Progrmabl Air Burst Mun, Mk310, Linked [AC73]	P-5a, P-21	B		- / 15.177	- / -	- / 8.910	- / 16.891	- / -	- / 16.891
P-5	E09191 / CTG, 30mm TPDS-T, MK317 (SABOT Trng), Single [BZ19]	P-5a, P-21	B		- / 44.905	- / 6.000	- / 32.078	- / 18.575	- / -	- / 18.575
P-5	E09292 / CTG, 30mm APFSDS-T, MK258, Single [BZ18]	P-5a, P-21	B		- / 71.638	- / 7.000	- / 37.133	- / 6.919	- / -	- / 6.919
P-5	E09900 / CTG, 30mm HEDP, M789, Single, f/Gun M230 [B129]	P-5a	A		- / 1,007.867	- / 10.799	- / 8.373	- / 5.443	- / -	- / 5.443
P-5	E10100 / CTG, 30mm TP, M788, Single, f/Gun M230 [B118]	P-5a, P-21	A		- / 505.694	- / 20.825	- / 11.673	- / 34.989	- / -	- / 34.989
P-40	Total Gross/Weapon System Cost				- / 1,723.101	- / 45.450	- / 137.209	- / 107.805	- / -	- / 107.805
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. FY 2024 Total Base procurement dollars in the amount of \$107.805 million support procurement of 1.383 million 30mm cartridges. (E07306) 30x173mm XM1173 Target Practice with Trace (TP-T) is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$24.582 million support the procurement of 0.165 million XM1173 cartridges. There are no FY 2024 Base procurement dollars in support of the European Deterrence Initiative (EDI). This is a decrease of \$5.116 million from the FY 2023 enacted level. Type classification date: PENDING (E07406) 30x173mm MK238 High Explosive Incendiary with Tracer (HEI-T) is a war reserve item used in combat. The FY 2024 request builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.406 million support the procurement of 0.000 million MK238 cartridges. There are no FY 2024 Base procurement dollars in support of the European Deterrence Initiative (EDI). This is a decrease of \$6.141 million from the FY 2023 enacted level. Type classification date: PENDING (E07610) 30x173mm XM1182 High Explosive Airburst with Trace (HEAB-T) is a war reserve item used in combat. The FY 2024 request builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$16.891 million support the procurement of 0.015 million XM1182 cartridges. Type classification date: PENDING										

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types	
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A		Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			
<p>(E09191) 30x173mm XM1172 Target Practice Discarding Sabot with Trace (TPDS-T) is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$18.575 million support the procurement of 0.231 million XM1172 cartridges. Type classification date: PENDING</p> <p>(E09292) 30x173mm XM1170 Armor Piercing Fin Stabilized Discarding Sabot with Trace (APFSDS-T) is a war reserve item used in combat. The FY 2024 request builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$6.919 million support the procurement of 0.010 million XM1170 cartridges. There are no FY 2024 Base procurement dollars in support of the European Deterrence Initiative (EDI). This is a decrease of \$24.009 million from the FY 2023 enacted level. Type classification date: PENDING</p> <p>(E09900) 30mm M789 High Explosive Dual Purpose (HEDP) is a war reserve item used in combat. 30mm XM1198 High Explosive Dual Purpose with Self Destruct (HEDP-SD) is a war reserve item used in combat. The FY 2024 request builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.249 million support the procurement of 0.002 million M789 cartridges. FY 2024 Base procurement dollars in the amount of \$5.194 million support the procurement of 0.023 million 30mm XM1198 High Explosive Dual Purpose with Self Destruct (HEDP-SD) cartridges. M789 Type classification date: 1982 XM1198 Type classification date: PENDING</p> <p>(E10100) 30mm M788 Target Practice (TP) is a training unique item not used in combat. 30mm XM950 Target Practice (TP) is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$21.612 million support the procurement of 0.607 million 30mm M788 cartridges. FY 2024 Base Procurement dollars in the amount of \$13.377 million support the procurement of 0.330 million 30mm XM950 cartridges. M788 Type classification date: 1982 XM950 Type classification date: PENDING</p>			

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types						Item Number / Title [DODIC]: E07306 / CTG, 30mm TP-T, MK239, Single [AC72]						
ID Code (A=Service Ready, B=Not Service Ready) : B									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				38.201		0.826		30.439		24.582		-		24.582				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				38.201		0.826		30.439		24.582		-		24.582				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				38.201		0.826		30.439		24.582		-		24.582				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
30x173MM, XM1173 TP-T ^(†)	-	-	-	-	-	-	139.72	202,433	28.284	125.75	164,898	20.736	-	-	-	125.75	164,898	20.736
Complete Round	47.62	702,963	33.475	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	33.475	-	-	-	-	-	28.284	-	-	20.736	-	-	-	-	-	20.736
Subtotal: Hardware Cost	-	-	33.475	-	-	-	-	-	28.284	-	-	20.736	-	-	-	-	-	20.736
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	0.008	-	-	-	-	-	0.008
First Article Test	-	-	1.326	-	-	-	-	-	0.612	-	-	0.624	-	-	-	-	-	0.624
Subtotal: Support - Acceptance Testing Cost	-	-	1.326	-	-	-	-	-	0.612	-	-	0.632	-	-	-	-	-	0.632
Support - Product Improvement Cost																		
Safety	-	-	-	-	-	0.330	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	0.330	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	3.374	-	-	0.496	-	-	1.539	-	-	3.210	-	-	-	-	-	3.210
Subtotal: Support - Production Engineering Cost	-	-	3.374	-	-	0.496	-	-	1.539	-	-	3.210	-	-	-	-	-	3.210
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.026	-	-	-	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types										Item Number / Title [DODIC]: E07306 / CTG, 30mm TP-T, MK239, Single [AC72]									
ID Code (A=Service Ready, B=Not Service Ready) : B															MDAP/MAIS Code:									

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Quality Assurance Cost	-	-	0.026	-	-	-	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Gross/Weapon System Cost	-	-	38.201	-	-	0.826	-	-	30.439	-	-	24.582	-	-	-	-	-	24.582

Remarks:
Complete round in the recurring hardware cost for FY 2022 and prior years references the Mk239 UMR round.

FY 2023 and FY 2024 funding includes Base funding in support of the new Program of Record (POR), the 30x173mm XM1173 Target Practice with Trace (TP-T) cartridge in support of training for the Stryker Infantry Carrier Vehicle (ICV) and any Army Fighting Vehicles that are equipped with a 30x173mm weapon system.

FY 2023 unit price represents Low Rate Initial Production (LRIP) unit cost estimate; FY 2024 unit price represents Full Rate Production (FRP) unit cost estimate.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types					Item Number / Title [DODIC]: E07306 / CTG, 30mm TP-T, MK239, Single [AC72]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
30x173MM, XM1173 TP-T ^(†)		2023	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Aug 2023	Aug 2024	202,433	139.72	Y		
30x173MM, XM1173 TP-T ^(†)		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Oct 2026	164,898	125.75	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																												
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types													Item Number / Title [DODIC]: E07306 / CTG, 30mm TP-T, MK239, Single [AC72]																												
Cost Elements (Units in Thousands)							Fiscal Year 2023													Fiscal Year 2024													B A L A N C E															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024																												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																		
30x173MM, XM1173 TP-T																																																
	1	2023	ARMY	202.433	.000	202.433														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.869	16.869	168.695										
	1	2024	ARMY	164.898	.000	164.898																											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	164.898
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																		

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types										Item Number / Title [DODIC]: E07306 / CTG, 30mm TP-T, MK239, Single [AC72]											
Cost Elements (Units in Thousands)							Fiscal Year 2025										Fiscal Year 2026														B A L A N C E
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025										Calendar Year 2026														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
30x173MM, XM1173 TP-T																															
	1	2023	ARMY	202.433	33.738	168.695	16.869	16.869	16.869	16.869	16.869	16.870	16.870	16.870	16.870	16.870															.000
	1	2024	ARMY	164.898	.000	164.898	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	164.898
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types										Item Number / Title [DODIC]: E07306 / CTG, 30mm TP-T, MK239, Single [AC72]													
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2027										Fiscal Year 2028														B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2026	BAL DUE AS OF 1 OCT	Calendar Year 2027										Calendar Year 2028																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
30x173MM, XM1173 TP-T																																	
	1	2023	ARMY	202.433	202.433	.000																										.000	
	1	2024	ARMY	164.898	.000	164.898	13.741	13.741	13.741	13.741	13.741	13.741	13.742	13.742	13.742	13.742	13.742																.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army								Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types				Item Number / Title [DODIC]: E07306 / CTG, 30mm TP-T, MK239, Single [AC72]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	1,000	70,000	160,000	6	6	31	37	6	6	31	37

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types						Item Number / Title [DODIC]: E07406 / CTG, 30mm Hi Expl Incendry-T(HEI-T), Mk238 Series [AC27]						
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				39.619		-		8.603		0.406		-		0.406				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				39.619		-		8.603		0.406		-		0.406				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				39.619		-		8.603		0.406		-		0.406				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	131.93	261,715	34.528	-	-	-	183.62	44,870	8.239	187.71	494	0.093	-	-	-	187.71	494	0.093
Subtotal: Recurring Cost	-	-	34.528	-	-	-	-	-	8.239	-	-	0.093	-	-	-	-	-	0.093
Subtotal: Hardware Cost	-	-	34.528	-	-	-	-	-	8.239	-	-	0.093	-	-	-	-	-	0.093
Support - Acceptance Testing Cost																		
First Article Test	-	-	1.886	-	-	-	-	-	-	-	-	0.300	-	-	-	-	-	0.300
Subtotal: Support - Acceptance Testing Cost	-	-	1.886	-	-	-	-	-	-	-	-	0.300	-	-	-	-	-	0.300
Support - Production Engineering Cost																		
Production Engineering	-	-	3.178	-	-	-	-	-	0.364	-	-	0.013	-	-	-	-	-	0.013
Subtotal: Support - Production Engineering Cost	-	-	3.178	-	-	-	-	-	0.364	-	-	0.013	-	-	-	-	-	0.013
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	39.619	-	-	-	-	-	8.603	-	-	0.406	-	-	-	-	-	0.406
Remarks:																		

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types	Item Number / Title [DODIC]: E07406 / CTG, 30mm Hi Expl Incendry-T(HEI-T), Mk238 Series [AC27]
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:
<p>This item was last procured in FY 2019 at a hardware unit cost of \$163.20, which has been increased to account for Economic Price Adjustments (EPA) and inflation. Ammunition costs are increasing greater than the historical inflation rates of 2-3%, due to significant increases to metals and manufacturing labor costs.</p> <p>(t) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types				Item Number / Title [DODIC]: E07406 / CTG, 30mm Hi Expl Incendry-T(HEI-T), Mk238 Series [AC27]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2023	NORTHROP GRUMMAN INNOVATION / PLYMOUTH, MN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	44,870	183.62	Y		
COMPLETE ROUND		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	494	187.71	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types						Item Number / Title [DODIC]: E07610 / CTG, 30MM, Progrmabl Air Burst Mun, Mk310, Linked [AC73]						
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				15.177		-		8.910		16.891		-		16.891				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				15.177		-		8.910		16.891		-		16.891				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				15.177		-		8.910		16.891		-		16.891				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
30x173MM XM1182 HEAB-T ^(†)	-	-	-	-	-	-	1,131.59	6,416	7.260	966.32	15,370	14.852	-	-	-	966.32	15,370	14.852
Complete Round	1,059.94	13,230	14.023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	14.023	-	-	-	-	-	7.260	-	-	14.852	-	-	-	-	-	14.852
Subtotal: Hardware Cost	-	-	14.023	-	-	-	-	-	7.260	-	-	14.852	-	-	-	-	-	14.852
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
First Article Test	-	-	-	-	-	-	-	-	1.353	-	-	1.380	-	-	-	-	-	1.380
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	1.353	-	-	1.390	-	-	-	-	-	1.390
Support - Production Engineering Cost																		
Production Engineering	-	-	1.137	-	-	-	-	-	0.293	-	-	0.645	-	-	-	-	-	0.645
Subtotal: Support - Production Engineering Cost	-	-	1.137	-	-	-	-	-	0.293	-	-	0.645	-	-	-	-	-	0.645
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.017	-	-	-	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Subtotal: Support - Quality Assurance Cost	-	-	0.017	-	-	-	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Gross/Weapon System Cost	-	-	15.177	-	-	-	-	-	8.910	-	-	16.891	-	-	-	-	-	16.891

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types	Item Number / Title [DODIC]: E07610 / CTG, 30MM, Progrmabl Air Burst Mun, Mk310, Linked [AC73]
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:
Remarks: Complete round in the recurring hardware cost for prior years references the Mk310 UMR round. FY 2023 and FY 2024 funding includes Base funding in support of the new Program of Record (POR), the 30x173mm XM1182 High Explosive Airburst with Trace (HEAB-T) cartridge in support of the Stryker Infantry Carrier Vehicle (ICV) and any Army Fighting Vehicles that are equipped with a 30x173mm weapon system. FY 2023 unit price represents Low Rate Initial Production (LRIP) unit cost estimate; FY 2024 unit price represents Full Rate Production (FRP) unit cost estimate. (t) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types				Item Number / Title [DODIC]: E07610 / CTG, 30MM, Progrmabl Air Burst Mun, Mk310, Linked [AC73]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
30x173MM XM1182 HEAB-T ^(†)		2023	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Aug 2023	Feb 2025	6,416	1,131.59	Y		
30x173MM XM1182 HEAB-T ^(†)		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Oct 2026	15,370	966.32	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types													Item Number / Title [DODIC]: E07610 / CTG, 30MM, Progrmabl Air Burst Mun, Mk310, Linked [AC73]																										
Cost Elements (Units in Thousands)							Fiscal Year 2023													Fiscal Year 2024													B A L A N C E													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024																										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																
30x173MM XM1182 HEAB-T																																														
	1	2023	ARMY	6.416	.000	6.416														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.416									
	1	2024	ARMY	15.370	.000	15.370														A -													-	-	-	-	-	-	-	-	-	-	-	-	-	15.370
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30								P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types															Item Number / Title [DODIC]: E07610 / CTG, 30MM, Progrmabl Air Burst Mun, Mk310, Linked [AC73]															
Cost Elements (Units in Thousands)								Fiscal Year 2025															Fiscal Year 2026															B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025															Calendar Year 2026																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
30x173MM XM1182 HEAB-T																																						
	1	2023	ARMY	6.416	.000	6.416	-	-	-	-	.542	.534	.534	.534	.534	.534	.534	.534	.534	.534	.534											.000						
	1	2024	ARMY	15.370	.000	15.370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.370							
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types										Item Number / Title [DODIC]: E07610 / CTG, 30MM, Progrmabl Air Burst Mun, Mk310, Linked [AC73]														
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2027										Fiscal Year 2028													BALANCE				
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2026	BAL DUE AS OF 1 OCT	Calendar Year 2027										Calendar Year 2028																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P			
30x173MM XM1182 HEAB-T																																		
	1	2023	ARMY	6.416	6.416	.000																											.000	
	1	2024	ARMY	15.370	.000	15.370	1.290	1.280	1.280	1.280	1.280	1.280	1.280	1.280	1.280	1.280																		.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army					Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types				Item Number / Title [DODIC]: E07610 / CTG, 30MM, Progrmabl Air Burst Mun, Mk310, Linked [AC73]	

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	1,000	70,000	110,000	6	6	31	37	6	6	31	37

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types						Item Number / Title [DODIC]: E09191 / CTG, 30mm TPDS-T, MK317 (SABOT Trng), Single [BZ19]						
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				44.905		6.000		32.078		18.575		-		18.575				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				44.905		6.000		32.078		18.575		-		18.575				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				44.905		6.000		32.078		18.575		-		18.575				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
30x173MM XM1172 TPDS-T ^(†)	-	-	-	-	-	-	72.84	404,692	29.478	68.22	231,026	15.761	-	-	-	68.22	231,026	15.761
Complete Round ^(†)	81.26	485,379	39.442	140.26	37,508	5.261	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	39.442	-	-	5.261	-	-	29.478	-	-	15.761	-	-	-	-	-	15.761
Subtotal: Hardware Cost	-	-	39.442	-	-	5.261	-	-	29.478	-	-	15.761	-	-	-	-	-	15.761
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
First Article Test	-	-	1.846	-	-	-	-	-	0.740	-	-	0.755	-	-	-	-	-	0.755
Subtotal: Support - Acceptance Testing Cost	-	-	1.846	-	-	-	-	-	0.740	-	-	0.765	-	-	-	-	-	0.765
Support - Production Engineering Cost																		
Production Engineering	-	-	3.587	-	-	0.735	-	-	1.857	-	-	2.046	-	-	-	-	-	2.046
Subtotal: Support - Production Engineering Cost	-	-	3.587	-	-	0.735	-	-	1.857	-	-	2.046	-	-	-	-	-	2.046
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.029	-	-	0.004	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Subtotal: Support - Quality Assurance Cost	-	-	0.029	-	-	0.004	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Gross/Weapon System Cost	-	-	44.905	-	-	6.000	-	-	32.078	-	-	18.575	-	-	-	-	-	18.575

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types	Item Number / Title [DODIC]: E09191 / CTG, 30mm TPDS-T, MK317 (SABOT Trng), Single [BZ19]
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:
Remarks: Complete round in the recurring hardware cost for FY 2022 and prior years references the Mk317 UMR round. FY 2023 and 2024 funding includes Base funding in support of the new Program of Record (POR), the 30x173mm XM1172 Target Practice Discarding Sabot with Trace (TPDS-T) cartridge in support of training for the Stryker Infantry Carrier Vehicle (ICV) and any Army Fighting Vehicles that are equipped with a 30x173mm weapon system. FY 2023 unit price represents Low Rate Initial Production (LRIP) unit cost estimate; FY 2024 unit price represents Full Rate Production (FRP) unit cost estimate. (t) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types					Item Number / Title [DODIC]: E09191 / CTG, 30mm TPDS-T, MK317 (SABOT Trng), Single [BZ19]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
30x173MM XM1172 TPDS-T ^(†)		2023	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Aug 2023	Mar 2026	404,692	72.84	Y		
30x173MM XM1172 TPDS-T ^(†)		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Oct 2026	231,026	68.22	Y		
Complete Round		2022	GENERAL DYNAMICS ORD & TAC / MARION, IL	Option / FFP	ROCK ISLAND ARSENAL, IL	Aug 2023	Feb 2025	37,508	140.26	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types														Item Number / Title [DODIC]: E09191 / CTG, 30mm TPDS-T, MK317 (SABOT Trng), Single [BZ19]																											
Cost Elements (Units in Thousands)							Fiscal Year 2023														Fiscal Year 2024														B A L A N C E													
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024																											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																		
30x173MM XM1172 TPDS-T																																																
	1	2023	ARMY	404.692	.000	404.692															A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	404.692										
	1	2024	ARMY	231.026	.000	231.026																													A	-	-	-	-	-	-	-	-	-	-	-	-	231.026
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																		

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types													Item Number / Title [DODIC]: E09191 / CTG, 30mm TPDS-T, MK317 (SABOT Trng), Single [BZ19]										
Cost Elements (Units in Thousands)							Fiscal Year 2025													Fiscal Year 2026													B A L A N C E
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
30x173MM XM1172 TPDS-T																																	
	1	2023	ARMY	404.692	.000	404.692	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.728	33.724	33.724	33.724	33.724	33.724	33.724	168.620	
	1	2024	ARMY	231.026	.000	231.026	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	231.026	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																		
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types												Item Number / Title [DODIC]: E09191 / CTG, 30mm TPDS-T, MK317 (SABOT Trng), Single [BZ19]																		
Cost Elements (Units in Thousands)							Fiscal Year 2027										Fiscal Year 2028										B A L A N C E										
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2026	BAL DUE AS OF 1 OCT	Calendar Year 2027										Calendar Year 2028																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P						
30x173MM XM1172 TPDS-T																																					
	1	2023	ARMY	404.692	236.072	168.620	33.724	33.724	33.724	33.724	33.724																					.000					
	1	2024	ARMY	231.026	.000	231.026	19.254	19.252	19.252	19.252	19.252	19.252	19.252	19.252	19.252	19.252																					.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2024 Army						Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types				Item Number / Title [DODIC]: E09191 / CTG, 30mm TPDS-T, MK317 (SABOT Trng), Single [BZ19]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	1,000	70,000	160,000	6	6	31	37	6	6	31	37

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types						Item Number / Title [DODIC]: E09292 / CTG, 30mm APFSDS-T, MK258, Single [BZ18]								
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-						
Gross/Weapon System Cost (<i>\$ in Millions</i>)				71.638		7.000		37.133		6.919		-		6.919						
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Net Procurement (P-1) (<i>\$ in Millions</i>)				71.638		7.000		37.133		6.919		-		6.919						
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Total Obligation Authority (<i>\$ in Millions</i>)				71.638		7.000		37.133		6.919		-		6.919						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
30x173MM XM1170 APFSDS-T ^(†)	-	-	-	-	-	-	553.94	61,992	34.340	521.11	9,778	5.095	-	-	-	521.11	9,778	5.095		
COMPLETE ROUND ^(†)	510.58	126,695	64.688	779.49	8,340	6.501	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Recurring Cost	-	-	64.688	-	-	6.501	-	-	34.340	-	-	5.095	-	-	-	-	-	5.095		
Subtotal: Hardware Cost	-	-	64.688	-	-	6.501	-	-	34.340	-	-	5.095	-	-	-	-	-	5.095		
Support - Acceptance Testing Cost																				
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010		
First Article Test	-	-	2.707	-	-	-	-	-	1.494	-	-	1.524	-	-	-	-	-	1.524		
Subtotal: Support - Acceptance Testing Cost	-	-	2.707	-	-	-	-	-	1.494	-	-	1.534	-	-	-	-	-	1.534		
Support - Production Engineering Cost																				
Production Engineering	-	-	4.201	-	-	0.495	-	-	1.295	-	-	0.286	-	-	-	-	-	0.286		
Subtotal: Support - Production Engineering Cost	-	-	4.201	-	-	0.495	-	-	1.295	-	-	0.286	-	-	-	-	-	0.286		
Support - Quality Assurance Cost																				
Quality Assurance	-	-	0.042	-	-	0.004	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004		
Subtotal: Support - Quality Assurance Cost	-	-	0.042	-	-	0.004	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004		

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types						Item Number / Title [DODIC]: E09292 / CTG, 30mm APFSDS-T, MK258, Single [BZ18]						
ID Code (A=Service Ready, B=Not Service Ready) : B									MDAP/MAIS Code:									
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	71.638	-	-	7.000	-	-	37.133	-	-	6.919	-	-	-	-	-	6.919
<p>Remarks: Complete round in the recurring hardware cost for FY 2022 and prior years references the Mk258 UMR round.</p> <p>FY 2023 and 2024 funding includes Base funding in support of the new Program of Record (POR), the 30x173mm XM1170 Armor Piercing Fin Stabilized Discarding Sabot with Trace (APFSDS-T) cartridge in support of the Stryker Infantry Carrier Vehicle (ICV) and any Army Fighting Vehicles that are equipped with a 30x173mm weapon system.</p> <p>FY 2023 unit price represents Low Rate Initial Production (LRIP) unit cost estimate; FY 2024 unit price represents Full Rate Production (FRP) unit cost estimate.</p> <p>(†) indicates the presence of a P-5a</p>																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types					Item Number / Title [DODIC]: E09292 / CTG, 30mm APFSDS-T, MK258, Single [BZ18]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
30x173MM XM1170 APFSDS-T ^(†)		2023	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Aug 2023	Mar 2026	61,992	553.94	Y		
30x173MM XM1170 APFSDS-T ^(†)		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Oct 2026	9,778	521.11	Y		
COMPLETE ROUND		2022	GENERAL DYNAMICS ORD & TAC / MARION, IL	Option / FFP	ROCK ISLAND ARSENAL, IL	Aug 2023	Feb 2025	8,340	779.49	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types													Item Number / Title [DODIC]: E09292 / CTG, 30mm APFSDS-T, MK258, Single [BZ18]																									
Cost Elements (Units in Thousands)							Fiscal Year 2023													Fiscal Year 2024													B A L A N C E												
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P															
30x173MM XM1170 APFSDS-T																																													
	1	2023	ARMY	61.992	.000	61.992														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61.992									
	1	2024	ARMY	9.778	.000	9.778																											A	-	-	-	-	-	-	-	-	-	-	-	9.778
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P															

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types															Item Number / Title [DODIC]: E09292 / CTG, 30mm APFSDS-T, MK258, Single [BZ18]										
Cost Elements (Units in Thousands)							Fiscal Year 2025												Fiscal Year 2026												B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
30x173MM XM1170 APFSDS-T																																
	1	2023	ARMY	61.992	.000	61.992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.166	5.166	5.166	5.166	5.166	5.166	5.166	25.830
	1	2024	ARMY	9.778	.000	9.778	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.778
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																	
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types														Item Number / Title [DODIC]: E09292 / CTG, 30mm APFSDS-T, MK258, Single [BZ18]												
Cost Elements (Units in Thousands)								Fiscal Year 2027														Fiscal Year 2028														B A L A N C E
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2026	BAL DUE AS OF 1 OCT	Calendar Year 2027														Calendar Year 2028															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
30x173MM XM1170 APFSDS-T																																				
	1	2023	ARMY	61.992	36.162	25.830	5.166	5.166	5.166	5.166	5.166																				.000					
	1	2024	ARMY	9.778	.000	9.778	.824	.814	.814	.814	.814	.814	.814	.814	.814	.814	.814															.000				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2024 Army								Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types				Item Number / Title [DODIC]: E09292 / CTG, 30mm APFSDS-T, MK258, Single [BZ18]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	1,000	70,000	160,000	6	6	18	24	6	6	18	24

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types						Item Number / Title [DODIC]: E09900 / CTG, 30mm HEDP, M789, Single, f/Gun M230 [B129]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				1,007.867			10.799			8.373			5.443			-			5.443		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				1,007.867			10.799			8.373			5.443			-			5.443		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				1,007.867			10.799			8.373			5.443			-			5.443		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
COMPLETE ROUND M789 ^(†)	74.88	13,303,707	996.168	-	-	-	131.98	26,298	3.471	138.23	1,598	0.221	-	-	-	138.23	1,598	0.221			
COMPLETE ROUND XM1198 HEDP-SD ^(†)	-	-	-	118.73	86,034	10.215	160.53	28,072	4.506	203.59	22,912	4.665	-	-	-	203.59	22,912	4.665			
Subtotal: Recurring Cost	-	-	996.168	-	-	10.215	-	-	7.977	-	-	4.886	-	-	-	-	-	4.886			
Subtotal: Hardware Cost	-	-	996.168	-	-	10.215	-	-	7.977	-	-	4.886	-	-	-	-	-	4.886			
Support - Acceptance Testing Cost																					
Acceptance Test	-	-	-	-	-	-	-	-	0.008	-	-	0.013	-	-	-	-	-	0.013			
First Article Test	-	-	-	-	-	0.431	-	-	-	-	-	0.292	-	-	-	-	-	0.292			
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.431	-	-	0.008	-	-	0.305	-	-	-	-	-	0.305			
Support - Data Cost																					
Technical Publications	-	-	0.041	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Data Cost	-	-	0.041	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Support - Engineering Change Proposals Cost																					
Engineering Change Proposals	-	-	-	-	-	0.069	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Engineering Change Proposals Cost	-	-	-	-	-	0.069	-	-	-	-	-	-	-	-	-	-	-	-			

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types						Item Number / Title [DODIC]: E09900 / CTG, 30mm HEDP, M789, Single, f/Gun M230 [B129]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Product Improvement Cost																		
Reliability	-	-	1.238	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Environmental Initiatives	-	-	0.532	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	1.770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	9.752	-	-	0.075	-	-	0.379	-	-	0.243	-	-	-	-	-	0.243
Subtotal: Support - Production Engineering Cost	-	-	9.752	-	-	0.075	-	-	0.379	-	-	0.243	-	-	-	-	-	0.243
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.136	-	-	0.010	-	-	0.009	-	-	0.009	-	-	-	-	-	0.009
Subtotal: Support - Quality Assurance Cost	-	-	0.136	-	-	0.010	-	-	0.009	-	-	0.009	-	-	-	-	-	0.009
Gross/Weapon System Cost	-	-	1,007.867	-	-	10.799	-	-	8.373	-	-	5.443	-	-	-	-	-	5.443
Remarks: Ammunition costs are increasing greater than the historical inflation rates of 2-3%, due to significant increases to metals and manufacturing labor costs. FY 2024, like FY 2023 is projected to be split awards between two vendors for 30mm HEDP-SD XM1198 for a lower quantity, higher unit price than FY 2022, as a single vendor award. FY 2024 will also be a new contract projected for a lower quantity range, higher unit price for the Army and other Services. FY 2024 includes funding for the 30mm XM1198 High Explosive Dual Purpose with Self Destruct (HEDP-SD) cartridge, which is a different version of the M789. The cost delta is as a result of the modified fuze that allows for self destruct in support of the Mobile Low, slow, small Intercept and Defeat System (MLIDS) and Initial Maneuver Short Range Air Defense (IM-SHORAD) ground vehicle platforms. (†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types					Item Number / Title [DODIC]: E09900 / CTG, 30mm HEDP, M789, Single, f/Gun M230 [B129]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND M789		2023	GENERAL DYNAMICS ORD & TAC / MARION, IL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	13,149	131.98	Y		
COMPLETE ROUND M789		2023	NORTHROP GRUMMAN INNOVATION / PLYMOUTH, MN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	13,149	131.98	Y		
COMPLETE ROUND M789		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	799	138.23	Y		
COMPLETE ROUND M789		2024	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	799	138.23	Y		
COMPLETE ROUND XM1198 HEDP-SD		2022	NORTHROP GRUMMAN INNOVATION / PLYMOUTH, MN	Option / FFP	ROCK ISLAND ARSENAL, IL	Jul 2022	Oct 2023	86,034	118.73	Y		
COMPLETE ROUND XM1198 HEDP-SD		2023	GENERAL DYNAMICS ORD & TAC / MARION, IL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	14,036	160.53	Y		
COMPLETE ROUND XM1198 HEDP-SD		2023	NORTHROP GRUMMAN INNOVATION / PLYMOUTH, MN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	14,036	160.53	Y		
COMPLETE ROUND XM1198 HEDP-SD		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	11,456	203.59	Y		
COMPLETE ROUND XM1198 HEDP-SD		2024	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	11,456	203.59	Y		

Remarks:
This item is part of a combined 20mm, 25mm, and 30mm contract. Quantity split will be determined between two contractors in the year of execution.

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types						Item Number / Title [DODIC]: E10100 / CTG, 30mm TP, M788, Single, f/Gun M230 [B118]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				505.694		20.825		11.673		34.989		-		34.989				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				505.694		20.825		11.673		34.989		-		34.989				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				505.694		20.825		11.673		34.989		-		34.989				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND M788 TP ^(†)	18.90	25,515,464	482.166	22.23	565,147	12.563	28.51	345,158	9.840	30.53	607,462	18.546	-	-	-	30.53	607,462	18.546
COMPLETE ROUND XM950 PRACTICE ^(†)	-	-	-	28.48	197,819	5.634	-	-	-	35.35	329,860	11.661	-	-	-	35.35	329,860	11.661
Subtotal: Recurring Cost	-	-	482.166	-	-	18.197	-	-	9.840	-	-	30.206	-	-	-	-	-	30.206
Subtotal: Hardware Cost	-	-	482.166	-	-	18.197	-	-	9.840	-	-	30.206	-	-	-	-	-	30.206
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.010	-	-	-	-	-	0.010	-	-	-	-	-	0.010
First Article Test	-	-	-	-	-	-	-	-	-	-	-	1.112	-	-	-	-	-	1.112
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.010	-	-	-	-	-	1.122	-	-	-	-	-	1.122
Support - Product Improvement Cost																		
Insensitive Munitions	-	-	2.305	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	2.305	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	21.175	-	-	2.611	-	-	1.829	-	-	3.654	-	-	-	-	-	3.654
Subtotal: Support - Production Engineering Cost	-	-	21.175	-	-	2.611	-	-	1.829	-	-	3.654	-	-	-	-	-	3.654
Support - Quality Assurance Cost																		

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Exhibit P-5, Cost Analysis: PB 2024 Army					Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30			P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types			Item Number / Title [DODIC]: E10100 / CTG, 30mm TP, M788, Single, f/Gun M230 [B118]			
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Quality Assurance	-	-	0.049	-	-	0.007	-	-	0.004	-	-	0.007	-	-	-	-	-	0.007
Subtotal: Support - Quality Assurance Cost	-	-	0.049	-	-	0.007	-	-	0.004	-	-	0.007	-	-	-	-	-	0.007
Gross/Weapon System Cost	-	-	505.694	-	-	20.825	-	-	11.673	-	-	34.989	-	-	-	-	-	34.989

Remarks:
Ammunition costs are increasing greater than the historical inflation rates of 2-3%, due to significant increases to metals and manufacturing labor costs.

FY 2024 is projected to be a split award between two vendors for 30mm TP M788 for a lower quantity, higher unit price than FY 2022, as a single vendor award. FY 2024 will also be a new contract projected for a higher unit price.

FY 2024 is projected to be a split award between two vendors for 30mm TP XM950 for a lower quantity, higher unit price than FY 2022, as a single vendor award. FY 2024 will also be a new contract projected for a higher unit price.

FY 2024 funding includes Base funding in support of the 30mm XM950 Target Practice (TP) cartridge, which is a different version of the M788. The cost delta is as a result of the modified primer incorporated in the round in support of the Mobile Low, slow, small Intercept and Defeat System (MLIDS) and Initial Maneuver Short Range Air Defense (IM-SHORAD) ground vehicle platforms.

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types					Item Number / Title [DODIC]: E10100 / CTG, 30mm TP, M788, Single, f/Gun M230 [B118]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND M788 TP ^(†)		2022	GENERAL DYNAMICS ORD & TAC / MARION, IL	Option / FFP	ROCK ISLAND ARSENAL, IL	Jan 2022	Nov 2022	565,147	22.23	Y		
COMPLETE ROUND M788 TP ^(†)		2023	GENERAL DYNAMICS ORD & TAC / MARION, IL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	172,579	28.50	Y		
COMPLETE ROUND M788 TP ^(†)		2023	NORTHROP GRUMMAN INNOVATION / PLYMOUTH, MN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	172,579	28.50	Y		
COMPLETE ROUND M788 TP ^(†)		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	303,731	30.52	Y		
COMPLETE ROUND M788 TP ^(†)		2024	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	303,731	30.52	Y		
COMPLETE ROUND XM950 PRACTICE ^(†)		2022	NORTHROP GRUMMAN INNOVATION / PLYMOUTH, MN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2022	Sep 2023	197,819	28.48	Y		
COMPLETE ROUND XM950 PRACTICE ^(†)		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	164,930	35.35	Y		
COMPLETE ROUND XM950 PRACTICE ^(†)		2024	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	164,930	35.35	Y		
^(†) indicates the presence of a P-21 Remarks: This item is part of a combined 20mm, 25mm, and 30mm contract. Quantity split will be determined between two contractors in the year of execution.												

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023												
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types										Item Number / Title [DODIC]: E10100 / CTG, 30mm TP, M788, Single, f/Gun M230 [B118]												
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2022										Fiscal Year 2023													B A L A N C E		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022										Calendar Year 2023															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
COMPLETE ROUND M788 TP																																
Prior Years Deliveries: 25515464																																
	1	2022	ARMY	565.147	.000	565.147				A -	-	-	-	-	-	-	-	-	-	-	47.102	47.095	47.095	47.095	47.095	47.095	47.095	47.095	47.095	47.095	47.095	47.095
	1	2023	ARMY	172.579	.000	172.579																			A -	-	-	-	-	-	-	172.579
	2	2023	ARMY	172.579	.000	172.579																			A -	-	-	-	-	-	-	172.579
	3	2024	ARMY	303.731	.000	303.731																										303.731
	4	2024	ARMY	303.731	.000	303.731																										303.731
COMPLETE ROUND XM950 PRACTICE																																
	5	2022	ARMY	197.819	.000	197.819						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.495	181.324
	5	2022	MC ^(†)	19.056	.000	19.056						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.588	17.468
	5	2022	Total	216.875	.000	216.875						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.083	198.792	
	6	2024	ARMY	164.930	.000	164.930																										164.930
	6	2024	MC ^(†)	7.493	.000	7.493																										7.493
	6	2024	Total	172.423	.000	172.423																										172.423
	7	2024	ARMY	164.930	.000	164.930																										164.930
	7	2024	MC ^(†)	7.493	.000	7.493																										7.493
	7	2024	Total	172.423	.000	172.423																										172.423
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types										Item Number / Title [DODIC]: E10100 / CTG, 30mm TP, M788, Single, f/Gun M230 [B118]																						
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2024										Fiscal Year 2025													BALANCE												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024										Calendar Year 2025																									
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP											
COMPLETE ROUND M788 TP																																										
Prior Years Deliveries: 25515464																																										
	1	2022	ARMY	565.147	518.052	47.095	47.095																											.000								
	1	2023	ARMY	172.579	.000	172.579	-	-	-	-	-	14.388	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381														.000
	2	2023	ARMY	172.579	.000	172.579	-	-	-	-	-	14.388	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381	14.381														.000
	3	2024	ARMY	303.731	.000	303.731						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.321	25.310	25.310	25.310	25.310	25.310	25.310	25.310	126.550							
	4	2024	ARMY	303.731	.000	303.731						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.321	25.310	25.310	25.310	25.310	25.310	25.310	25.310	126.550							
COMPLETE ROUND XM950 PRACTICE																																										
	5	2022	ARMY	197.819	16.495	181.324	16.484	16.484	16.484	16.484	16.484	16.484	16.484	16.484	16.484	16.484														.000												
	5	2022	MC ^(†)	19.056	1.588	17.468	1.588	1.588	1.588	1.588	1.588	1.588	1.588	1.588	1.588	1.588														.000												
	5	2022	Total	216.875	18.083	198.792	18.072	18.072	18.072	18.072	18.072	18.072	18.072	18.072	18.072	18.072	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000									
	6	2024	ARMY	164.930	.000	164.930						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	13.746	13.744	13.744	13.744	13.744	13.744	13.744	68.720									
	6	2024	MC ^(†)	7.493	.000	7.493						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	.629	.624	.624	.624	.624	.624	.624	3.120									
	6	2024	Total	172.423	.000	172.423						-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.375	14.368	14.368	14.368	14.368	14.368	14.368	71.840									
	7	2024	ARMY	164.930	.000	164.930						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	13.746	13.744	13.744	13.744	13.744	13.744	13.744	68.720									
	7	2024	MC ^(†)	7.493	.000	7.493						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	.629	.624	.624	.624	.624	.624	.624	3.120									
	7	2024	Total	172.423	.000	172.423						-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.375	14.368	14.368	14.368	14.368	14.368	14.368	71.840									
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP												

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LI 2938ER8120 - CTG, 30mm, All Types
Army

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Exhibit P-21, Production Schedule: PB 2024 Army								Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 2938ER8120 / CTG, 30mm, All Types				Item Number / Title [DODIC]: E10100 / CTG, 30mm TP, M788, Single, f/Gun M230 [B118]			

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	GENERAL DYNAMICS ORD & TAC - MARION, IL	100	30,000	60,000	6	6	12	18	6	6	12	18
2	NORTHROP GRUMMAN INNOVATION - PLYMOUTH, MN	100	30,000	60,000	6	6	12	18	6	6	12	18
3	TO BE SELECTED - TBS01	100	30,000	60,000	6	6	12	18	6	6	12	18
4	TO BE SELECTED - TBS02	100	30,000	60,000	6	6	12	18	6	6	12	18
5	NORTHROP GRUMMAN INNOVATION - PLYMOUTH, MN	100	30,000	60,000	6	6	12	18	6	6	12	18
6	TO BE SELECTED - TBS01	100	30,000	60,000	6	6	12	18	6	6	12	18
7	TO BE SELECTED - TBS02	100	30,000	60,000	6	6	12	18	6	6	12	18

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/
Medium Cal Ammunition

P-1 Line Item Number / Title:
3222ER8001 / CTG, 40mm, All Types

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,942.301	110.759	85.213	148.970	-	148.970	140.192	133.505	152.440	153.345	-	2,866.725
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,942.301	110.759	85.213	148.970	-	148.970	140.192	133.505	152.440	153.345	-	2,866.725
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,942.301	110.759	85.213	148.970	-	148.970	140.192	133.505	152.440	153.345	-	2,866.725
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This budget line includes 40MM ALL TYPES:

(E05610) CTG 40mm M781E1 Low Velocity Day Night Thermal cartridge is a training cartridge for the M203 and M320 Grenade Launchers. This ammunition consists of a projectile assembly and cartridge case assembly. The projectile ogive is filled with a signature material that provides a signature upon impact that can be seen day or night with the unaided eye and thermal and night vision weapon sights. The cartridge does not contain any fuzing or explosives, eliminating unexploded ordnance issues on the training ranges due to non-functioning training ammunition. This item is Code B, not approved for service use.

(E05611) CTG 40mm M918E1 High Velocity Day Night Thermal cartridge is a training cartridge for the MK19 Grenade Machine Gun. This ammunition consists of a projectile assembly and cartridge case assembly. The projectile ogive is filled with a signature material that provides a signature upon impact that can be seen day or night with the unaided eye and thermal and night vision weapon sights. The cartridge does not contain any fuzing or explosives, eliminating unexploded ordnance issues on the training ranges due to non-functioning training ammunition. This item is Code B, not approved for service use.

(E12601) CTG 40mm Low Velocity M433 is a High Explosive Dual Purpose (HEDP) cartridge fired from the M203 and M320 Grenade Launchers to a max range of 400 meters. The M433 cartridge consists of an aluminum projectile assembly with a Comp A5 high explosive charge, Point Initiating Base Detonating (PIBD) fuze assembly with a Spitback charge, copper cone liner, and aluminum cartridge case. Upon impact, detonation of the Comp A5 causes fragmentation of the projectile body on the target and forms an armor piercing jet created by the copper shaped-charge liner, which is capable of penetrating a minimum of two inches of Rolled Homogeneous Armor (RHA) plate. This item is Code B, not approved for service use.

(E70505) CTG 40mm High Velocity (HV) High Explosive Dual Purpose - Air burst (HEDP-AB) XM1176 cartridge is a new capability that will provide the Mk19 Mod 3 Grenade Machine Gun (GMG) an air burst capable cartridge with the ability of achieving required lethal effects against enemy targets in the open and in defilade, while maintaining the capability to defeat unarmored and lightly armored vehicles. The XM1176 HEDP-AB cartridges are manufactured by de-fuzing legacy M430A1 cartridges and installing a new airburst capable fuze onto the M430A1 warhead. This item is scheduled to transition from Engineering Manufacturing Development (EMD) to Milestone C and Low Rate Initial Production (LRIP) in the 4th Quarter of FY 2024. This item is Code B, not approved for service use.

(E71005) CTG 40mm Low Velocity High Explosive Air Burst (HEAB) XM1166 cartridge is a new capability that addresses a counter-defilade capability gap and allows the Warfighter to engage targets at increased effective ranges using the 40mm M320 Grenade Launcher. The HEAB cartridge provides the grenadier with a higher probability of achieving a first shot kill against enemy personnel, coupled with the ability to defeat personnel targets in defilade positions. When deployed against point and area targets, the cartridge inflicts incapacitating effects against personnel beyond those offered by the current M433 High Explosive Dual Purpose (HEDP) cartridge. The cartridge provides lethal effects against targets with improved accuracy and greater standoff ranges resulting in increased soldier survivability. This item is

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>scheduled to transition from Engineering Manufacturing Development (EMD) to Milestone C and Low Rate Initial Production (LRIP) in the 4th Quarter of FY 2024. This item is Code B, not approved for service use.</p> <p>(E74315) The 40mm Practice M918/M385A1 Mixed Belt cartridge configuration for the MK19 Grenade Machine Gun is a high velocity training projectile with realistic signature effects providing sufficient flash, smoke, and sound upon impact to be seen/heard out to 1,200 meters. In addition to providing audible/visual signature for day or night firing, the mixed belt for MK19 Grenade Machine Gun will minimize hazards to troops in the training area. This item is Code A, approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army							Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition					P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E05610 / CTG, 40MM TP-DAY/NITE/THER,LO VEL M781A1, F/ M203GL [BA54]	P-5a, P-21	B		- / 88.607	- / -	- / 11.544	- / 22.873	- / -	- / 22.873
P-5	E05611 / CTG, 40mm TP-Day/Nite/Ther,Hi Vel,M918E1 f/MK19Gmg [BA55]	P-5a, P-21	B		- / 230.219	- / -	- / 37.162	- / 93.943	- / -	- / 93.943
P-5	E12601 / CTG, 40MM HEDP, M433E1 F/M203 GRENADE LAUNCHER	P-5a, P-21	B		- / 548.302	- / 72.415	- / 6.766	- / 12.283	- / -	- / 12.283
P-5	E70505 / CTG, 40MM, HV HEDP-AB, XM1176 [BA58]	P-5a	B		- / -	- / 13.844	- / 15.853	- / -	- / -	- / -
P-5	E71005 / CTG, 40MM, LV HEAB, XM1166 [BZ16]	P-5a	B		- / -	- / 10.500	- / 13.888	- / 2.021	- / -	- / 2.021
P-5	E74315 / CTG, 40mm Practice, M918/M385A1 w/M16A2 Lnk f/MK19	P-5a, P-21	A		- / 1,075.173	- / 14.000	- / -	- / 17.850	- / -	- / 17.850
P-40	Total Gross/Weapon System Cost				- / 1,942.301	- / 110.759	- / 85.213	- / 148.970	- / -	- / 148.970
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. FY 2024 Total Base procurement dollars in the amount of \$148.970 million support procurement of 3.642 million cartridges. (E05610) CTG 40mm M781E1 Low Velocity Day Night Thermal is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$22.873 million support the procurement of 0.987 million cartridges. Type classification date: 31 May 2017, Limited Procurement (E05611) CTG 40mm M918E1 High Velocity Day Night Thermal is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$93.943 million support the procurement of 2.235 million cartridges. Type classification date: 31 May 2017, Limited Procurement (E12601) CTG 40mm Low Velocity M433 is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$12.283 million support the procurement of 0.063 million cartridges. Type classification date: 1971 (E70505) CTG 40mm High Velocity (HV) High Explosive Dual Purpose - Air burst (HEDP-AB) XM1176 is a training standard item used in both training and combat. There is no FY 2024 request.										

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition		P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
Type classification date: TBD		
(E71005) CTG 40mm Low Velocity High Explosive Air Burst (HEAB) XM1166 is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$2.021 million support the procurement of 0.001 million cartridges. Type classification date: TBD		
(E74315) CTG 40MM PRAC, M918/M385A1 is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$17.850 million support the procurement of 0.347 million cartridges. TYPE CLASSIFICATION DATE: October 1989 / October 1990		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types						Item Number / Title [DODIC]: E05610 / CTG, 40MM TP-DAY/NITE/ THER,LO VEL M781A1, F/M203GL [BA54]						
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				88.607		-		11.544		22.873		-		22.873				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				88.607		-		11.544		22.873		-		22.873				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				88.607		-		11.544		22.873		-		22.873				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	11.29	6,808,348	76.833	-	-	-	20.64	441,618	9.115	21.06	996,747	20.991	-	-	-	21.06	996,747	20.991
Subtotal: Recurring Cost	-	-	76.832	-	-	-	-	-	9.115	-	-	20.991	-	-	-	-	-	20.991
Subtotal: Hardware Cost	-	-	76.832	-	-	-	-	-	9.115	-	-	20.991	-	-	-	-	-	20.991
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.320	-	-	-	-	-	0.193	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.320	-	-	-	-	-	0.193	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Reliability	-	-	0.501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	0.501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	10.929	-	-	-	-	-	2.236	-	-	1.882	-	-	-	-	-	1.882
Subtotal: Support - Production Engineering Cost	-	-	10.929	-	-	-	-	-	2.236	-	-	1.882	-	-	-	-	-	1.882
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types						Item Number / Title [DODIC]: E05610 / CTG, 40MM TP-DAY/NITE/ THER,LO VEL M781A1, F/M203GL [BA54]					

ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Quality Assurance Cost	-	-	0.024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	88.607	-	-	-	-	-	11.544	-	-	22.873	-	-	-	-	-	22.873

Remarks:
Ammunition costs are increasing greater than the historical inflation rates of 2-3%, due to significant increases to metals and manufacturing labor costs.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types					Item Number / Title [DODIC]: E05610 / CTG, 40MM TP-DAY/NITE/ THER,LO VEL M781A1, F/M203GL [BA54]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2023	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Aug 2023	Dec 2024	441,618	20.64	Y		
COMPLETE ROUND ^(†)		2024	TO BE SELECTED / TBS01	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Jul 2025	996,747	21.06	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types															Item Number / Title [DODIC]: E05610 / CTG, 40MM TP-DAY/NITE/ THER,LO VEL M781A1, F/M203GL [BA54]																					
Cost Elements (Units in Thousands)								Fiscal Year 2023															Fiscal Year 2024															B A L A N C E								
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023															Calendar Year 2024																								
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																
COMPLETE ROUND																																														
Prior Years Deliveries: 6808348																																														
	1	2023	ARMY	441.618	.000	441.618																A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	441.618						
	1	2024	ARMY	996.747	.000	996.747																										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	996.747
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30								P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types																			Item Number / Title [DODIC]: E05610 / CTG, 40MM TP-DAY/NITE/ THER,LO VEL M781A1, F/M203GL [BA54]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2025														Fiscal Year 2026														B A L A N C E																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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	1	2023	ARMY	441.618	.000	441.618	-	-	36.807	36.801	36.801	36.801	36.801	36.801	36.801	36.801	36.801	36.801	36.801																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types				Item Number / Title [DODIC]: E05610 / CTG, 40MM TP-DAY/NITE/ THER,LO VEL M781A1, F/M203GL [BA54]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	50,000	125,000	375,000	6	6	16	22	6	6	16	22

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types						Item Number / Title [DODIC]: E05611 / CTG, 40mm TP-Day/Nite/ Ther,Hi Vel,M918E1 f/MK19Gmg [BA55]							
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				230.219		-		37.162		93.943		-		93.943					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				230.219		-		37.162		93.943		-		93.943					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				230.219		-		37.162		93.943		-		93.943					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Hardware Cost																			
Recurring Cost																			
COMPLETE ROUND ^(†)	20.26	10,193,404	206.514	-	-	-	39.09	860,731	33.646	39.88	2,235,204	89.140	-	-	-	39.88	2,235,204	89.140	
Subtotal: Recurring Cost	-	-	206.518	-	-	-	-	-	33.646	-	-	89.140	-	-	-	-	-	89.140	
Subtotal: Hardware Cost	-	-	206.518	-	-	-	-	-	33.646	-	-	89.140	-	-	-	-	-	89.140	
Support - Acceptance Testing Cost																			
First Article Test	-	-	0.409	-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Acceptance Testing Cost	-	-	0.409	-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-	
Support - Engineering Change Proposals Cost																			
Engineering Change Proposals	-	-	2.747	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Engineering Change Proposals Cost	-	-	2.747	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Support - Product Improvement Cost																			
Safety	-	-	2.588	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Product Improvement Cost	-	-	2.588	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Support - Production Engineering Cost																			
Production Engineering	-	-	17.922	-	-	-	-	-	3.016	-	-	4.803	-	-	-	-	-	4.803	

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types						Item Number / Title [DODIC]: E05611 / CTG, 40mm TP-Day/Nite/ Ther,Hi Vel,M918E1 f/MK19Gmg [BA55]						
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Production Engineering Cost	-	-	17.922	-	-	-	-	-	3.016	-	-	4.803	-	-	-	-	-	4.803
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.034	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.034	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	230.219	-	-	-	-	-	37.162	-	-	93.943	-	-	-	-	-	93.943
Remarks: Ammunition costs are increasing greater than the historical inflation rates of 2-3%, due to significant increases to metals and manufacturing labor costs. FY 2023 and FY 2024 unit prices reflect updated costs, as a result of implementation of safety fixes to the projectile. (†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types					Item Number / Title [DODIC]: E05611 / CTG, 40mm TP-Day/Nite/ Ther,Hi Vel,M918E1 f/MK19Gmg [BA55]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2023	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Aug 2023	Dec 2024	860,731	39.09	Y		
COMPLETE ROUND ^(†)		2024	TO BE SELECTED / TBS01	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Jul 2025	2,235,204	39.88	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types										Item Number / Title [DODIC]: E05611 / CTG, 40mm TP-Day/Nite/ Ther,Hi Vel,M918E1 f/MK19Gmg [BA55]																				
Cost Elements (Units in Millions, * = < 500)							Fiscal Year 2023													Fiscal Year 2024													B A L A N C E							
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										
COMPLETE ROUND																																								
Prior Years Deliveries: 10193404																																								
	1	2023	ARMY		.861	.000	.861														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.861			
	1	2024	ARMY		2.235	.000	2.235																				A	-	-	-	-	-	-	-	-	-	-	-	-	2.235
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types										Item Number / Title [DODIC]: E05611 / CTG, 40mm TP-Day/Nite/ Ther,Hi Vel,M918E1 f/MK19Gmg [BA55]														
Cost Elements <i>(Units in Millions, * = < 500)</i>							Fiscal Year 2025													Fiscal Year 2026													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
COMPLETE ROUND																																		
Prior Years Deliveries: 10193404																																		
	1	2023	ARMY		.861	.000	.861	-	-	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072	.072														.000
	1	2024	ARMY		2.235	.000	2.235	-	-	-	-	-	-	-	-	.141	.141	.141	.201	.201	.201	.201	.201	.201	.201	.201	.201	.201						.000
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army								Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types				Item Number / Title [DODIC]: E05611 / CTG, 40mm TP-Day/Nite/ Ther,Hi Vel,M918E1 f/MK19Gmg [BA55]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	100	250,000	850,000	6	6	16	22	6	6	16	22

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types						Item Number / Title [DODIC]: E12601 / CTG, 40MM HEDP, M433E1 F/ M203 GRENADE LAUNCHER								
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-						
Gross/Weapon System Cost (<i>\$ in Millions</i>)				548.302		72.415		6.766		12.283		-		12.283						
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Net Procurement (P-1) (<i>\$ in Millions</i>)				548.302		72.415		6.766		12.283		-		12.283						
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Total Obligation Authority (<i>\$ in Millions</i>)				548.302		72.415		6.766		12.283		-		12.283						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
CTG 40MM HEDP M433E1 ^(†)	68.96	7,910,427	545.519	184.67	175,040	32.325	184.67	31,080	5.740	178.64	63,039	11.261	-	-	-	178.64	63,039	11.261		
CTG 40MM HEDP M433 ^(†)	-	-	-	69.52	453,528	31.529	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Recurring Cost	-	-	545.519	-	-	63.854	-	-	5.740	-	-	11.261	-	-	-	-	-	11.261		
Subtotal: Hardware Cost	-	-	545.519	-	-	63.854	-	-	5.740	-	-	11.261	-	-	-	-	-	11.261		
Support - Acceptance Testing Cost																				
First Article Test	-	-	1.809	-	-	0.728	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Acceptance Testing Cost	-	-	1.809	-	-	0.728	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Non-Recurring Support Cost																				
Facilitization	-	-	-	-	-	5.443	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Non-Recurring Support Cost	-	-	-	-	-	5.443	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Production Engineering Cost																				
Production Engineering	-	-	0.967	-	-	2.348	-	-	1.023	-	-	1.013	-	-	-	-	-	1.013		
Subtotal: Support - Production Engineering Cost	-	-	0.967	-	-	2.348	-	-	1.023	-	-	1.013	-	-	-	-	-	1.013		
Support - Quality Assurance Cost																				
Quality Assurance	-	-	0.008	-	-	0.042	-	-	0.004	-	-	0.009	-	-	-	-	-	0.009		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types					Item Number / Title [DODIC]: E12601 / CTG, 40MM HEDP, M433E1 F/ M203 GRENADE LAUNCHER									
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:									

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Quality Assurance Cost	-	-	0.008	-	-	0.042	-	-	0.004	-	-	0.009	-	-	-	-	-	0.009
Gross/Weapon System Cost	-	-	548.302	-	-	72.415	-	-	6.766	-	-	12.283	-	-	-	-	-	12.283

Remarks:
Unit price increase from prior years to FY 2022-2024 for the M433E1 is due to transition to improved version for safety, accuracy, and lethality.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types				Item Number / Title [DODIC]: E12601 / CTG, 40MM HEDP, M433E1 F/ M203 GRENADE LAUNCHER				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
CTG 40MM HEDP M433E1 ^(†)		2022	AMTEC CORPORATION / JANESVILLE, WI	Option / FFP	ROCK ISLAND ARSENAL, IL	Jun 2023	Jan 2025	175,040	184.67	Y		
CTG 40MM HEDP M433E1 ^(†)		2023	AMTEC CORPORATION / JANESVILLE, WI	Option / FFP	ROCK ISLAND ARSENAL, IL	Jun 2023	Jan 2025	31,080	184.67	Y		
CTG 40MM HEDP M433E1 ^(†)		2024	AMTEC CORPORATION / JANESVILLE, WI	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Aug 2025	63,039	178.64	Y		
CTG 40MM HEDP M433		2022	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	ROCK ISLAND ARSENAL, IL	Sep 2022	Dec 2023	453,528	69.52	N		

^(†) indicates the presence of a P-21

Remarks:
M433E1 FY 2022-2024 funds will be awarded on the existing 40mm Systems Contract.

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types										Item Number / Title [DODIC]: E12601 / CTG, 40MM HEDP, M433E1 F/ M203 GRENADE LAUNCHER														
Cost Elements (Units in Thousands)							Fiscal Year 2022													Fiscal Year 2023													B A L A N C E	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
CTG 40MM HEDP M433E1																																		
Prior Years Deliveries: 7910427																																		
	1	2022	ARMY	175.040	.000	175.040																								A -	-	-	-	175.040
	1	2023	ARMY	31.080	.000	31.080																								A -	-	-	-	31.080
	1	2024	ARMY	63.039	.000	63.039																												63.039
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army																						Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30								P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types														Item Number / Title [DODIC]: E12601 / CTG, 40MM HEDP, M433E1 F/ M203 GRENADE LAUNCHER									
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2024												Fiscal Year 2025												B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
CTG 40MM HEDP M433E1																															
Prior Years Deliveries: 7910427																															
	1	2022	ARMY	175.040	.000	175.040	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.594	14.586	14.586	14.586	14.586	14.586	14.586	14.586	43.758
	1	2023	ARMY	31.080	.000	31.080	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.590	2.590	2.590	2.590	2.590	2.590	2.590	2.590	7.770
	1	2024	ARMY	63.039	.000	63.039	A -					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.256	5.253	52.530
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types										Item Number / Title [DODIC]: E12601 / CTG, 40MM HEDP, M433E1 F/ M203 GRENADE LAUNCHER															
Cost Elements (Units in Thousands)							Fiscal Year 2026													Fiscal Year 2027													B A L A N C E		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
CTG 40MM HEDP M433E1																																			
Prior Years Deliveries: 7910427																																			
	1	2022	ARMY	175.040	131.282	43.758	14.586	14.586	14.586																										.000
	1	2023	ARMY	31.080	23.310	7.770	2.590	2.590	2.590																										.000
	1	2024	ARMY	63.039	10.509	52.530	5.253	5.253	5.253	5.253	5.253	5.253	5.253	5.253	5.253	5.253																	.000		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types				Item Number / Title [DODIC]: E12601 / CTG, 40MM HEDP, M433E1 F/ M203 GRENADE LAUNCHER			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	AMTEC CORPORATION - JANESVILLE, WI	20,000	35,000	60,000	6	6	19	25	6	6	17	23

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types						Item Number / Title [DODIC]: E70505 / CTG, 40MM, HV HEDP-AB, XM1176 [BA58]						
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		13.844		15.853		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		13.844		15.853		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		13.844		15.853		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	438.44	26,850	11.772	162.76	81,803	13.314	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	11.772	-	-	13.314	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	-	-	-	11.772	-	-	13.314	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	0.290	-	-	0.296	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.290	-	-	0.296	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	1.782	-	-	2.235	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	1.782	-	-	2.235	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	0.008	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	-	-	-	0.008	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	13.844	-	-	15.853	-	-	-	-	-	-	-	-	-
Remarks: FY 2022 unit price represents Low Rate Initial Production (LRIP) unit cost; FY 2023 unit price represents Full Rate Production (FRP) unit cost.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types	Item Number / Title [DODIC]: E70505 / CTG, 40MM, HV HEDP-AB, XM1176 [BA58]
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:
<div>(t) indicates the presence of a P-5a</div>		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types				Item Number / Title [DODIC]: E70505 / CTG, 40MM, HV HEDP-AB, XM1176 [BA58]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	RDZM, LLC / MIDDLETOWN, IA	Option / FFP	PICATINNY ARSENAL, NJ	Aug 2023	Mar 2025	26,850	438.44	Y		
COMPLETE ROUND		2023	RDZM, LLC / MIDDLETOWN, IA	Option / FFP	PICATINNY ARSENAL, NJ	Aug 2023	Mar 2025	81,803	162.76	Y		

Remarks:
The complete round contract award for Low Rate Initial Production (LRIP) will be an option to the existing contract for Engineering, Manufacturing and Development (EMD).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types						Item Number / Title [DODIC]: E71005 / CTG, 40MM, LV HEAB, XM1166 [BZ16]						
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		10.500		13.888		2.021		-		2.021				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		10.500		13.888		2.021		-		2.021				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		10.500		13.888		2.021		-		2.021				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	289.70	29,570	8.566	295.49	37,989	11.225	318.43	994	0.317	-	-	-	318.43	994	0.317
Subtotal: Recurring Cost	-	-	-	-	-	8.566	-	-	11.225	-	-	0.317	-	-	-	-	-	0.317
Subtotal: Hardware Cost	-	-	-	-	-	8.566	-	-	11.225	-	-	0.317	-	-	-	-	-	0.317
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	0.451	-	-	0.460	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.451	-	-	0.460	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	1.483	-	-	2.203	-	-	1.704	-	-	-	-	-	1.704
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	1.483	-	-	2.203	-	-	1.704	-	-	-	-	-	1.704
Gross/Weapon System Cost	-	-	-	-	-	10.500	-	-	13.888	-	-	2.021	-	-	-	-	-	2.021
Remarks:																		
Ammunition costs are increasing greater than the historical inflation rates of 2-3%, due to significant increases to metals and manufacturing labor costs.																		
^(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types					Item Number / Title [DODIC]: E71005 / CTG, 40MM, LV HEAB, XM1166 [BZ16]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Aug 2023	Dec 2024	29,570	289.70	Y		
COMPLETE ROUND		2023	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Aug 2023	Dec 2024	37,989	295.49	Y		
COMPLETE ROUND		2024	TO BE SELECTED / TBS01	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Apr 2025	994	318.43	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types						Item Number / Title [DODIC]: E74315 / CTG, 40mm Practice, M918/ M385A1 w/M16A2 Lnk f/MK19						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				1,075.173		14.000		-		17.850		-		17.850				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				1,075.173		14.000		-		17.850		-		17.850				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				1,075.173		14.000		-		17.850		-		17.850				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	30.00	35,468,214	1,064.046	39.78	246,543	9.807	-	-	-	48.98	346,825	16.987	-	-	-	48.98	346,825	16.987
Subtotal: Recurring Cost	-	-	1,064.046	-	-	9.807	-	-	-	-	-	16.987	-	-	-	-	-	16.987
Subtotal: Hardware Cost	-	-	1,064.046	-	-	9.807	-	-	-	-	-	16.987	-	-	-	-	-	16.987
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.387	-	-	0.312	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.387	-	-	0.312	-	-	-	-	-	-	-	-	-	-	-	-
Support - Non-Recurring Support Cost																		
Facilitization	-	-	-	-	-	1.073	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Non-Recurring Support Cost	-	-	-	-	-	1.073	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Safety	-	-	0.143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	0.143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	10.581	-	-	2.798	-	-	-	-	-	0.850	-	-	-	-	-	0.850
Subtotal: Support - Production Engineering Cost	-	-	10.581	-	-	2.798	-	-	-	-	-	0.850	-	-	-	-	-	0.850
Support - Quality Assurance Cost																		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types					Item Number / Title [DODIC]: E74315 / CTG, 40mm Practice, M918/ M385A1 w/M16A2 Lnk f/MK19			
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:			

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Quality Assurance	-	-	0.015	-	-	0.009	-	-	-	-	-	0.012	-	-	-	-	-	0.012
Subtotal: Support - Quality Assurance Cost	-	-	0.015	-	-	0.009	-	-	-	-	-	0.012	-	-	-	-	-	0.012
Gross/Weapon System Cost	-	-	1,075.173	-	-	14.000	-	-	-	-	-	17.850	-	-	-	-	-	17.850

Remarks:
Ammunition costs are increasing greater than the historical inflation rates of 2-3%, due to significant increases to metals and manufacturing labor costs.

FY 2024 projected unit price includes an Economic Price Adjustment (EPA) to the contract matrix price.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types				Item Number / Title [DODIC]: E74315 / CTG, 40mm Practice, M918/ M385A1 w/M16A2 Lnk f/MK19				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round ^(†)		2022	AMTEC CORPORATION / JANESVILLE, WI	C / FFP	ROCK ISLAND ARSENAL, IL	Sep 2022	Jul 2025	246,543	39.78	Y		
Complete Round ^(†)		2024	AMTEC CORPORATION / JANESVILLE, WI	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Oct 2025	346,825	48.98	Y		

(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30							P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types												Item Number / Title [DODIC]: E74315 / CTG, 40mm Practice, M918/ M385A1 w/M16A2 Lnk f/MK19																								
Cost Elements (Units in Thousands)							Fiscal Year 2022												Fiscal Year 2023												B A L A N C E												
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023																								
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P													
Complete Round																																											
Prior Years Deliveries: 35468214																																											
	1	2022	ARMY	246.543	.000	246.543													A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	246.543							
	1	2024	ARMY	346.825	.000	346.825																																					346.825
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P													

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types										Item Number / Title [DODIC]: E74315 / CTG, 40mm Practice, M918/ M385A1 w/M16A2 Lnk f/MK19													
Cost Elements (Units in Thousands)							Fiscal Year 2024													Fiscal Year 2025													B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Complete Round																																	
Prior Years Deliveries: 35468214																																	
	1	2022	ARMY	246.543	.000	246.543	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.000	-	-	236.543
	1	2024	ARMY	346.825	.000	346.825						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	346.825
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types															Item Number / Title [DODIC]: E74315 / CTG, 40mm Practice, M918/ M385A1 w/M16A2 Lnk f/MK19										
Cost Elements (Units in Thousands)								Fiscal Year 2026												Fiscal Year 2027														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026												Calendar Year 2027																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
Complete Round																																			
Prior Years Deliveries: 35468214																																			
	1	2022	ARMY	246.543	10.000	236.543	29.574	29.567	29.567	29.567	29.567	29.567	29.567																					.000	
	1	2024	ARMY	346.825	.000	346.825	28.903	28.902	28.902	28.902	28.902	28.902	28.902	28.902	28.902	28.902																			.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 3222ER8001 / CTG, 40mm, All Types				Item Number / Title [DODIC]: E74315 / CTG, 40mm Practice, M918/ M385A1 w/M16A2 Lnk f/MK19			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	AMTEC CORPORATION - JANESVILLE, WI	50,000	100,000	400,000	60	6	19	25	6	6	17	23

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition							P-1 Line Item Number / Title: 8030E80010 / CTG, 50MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	28.000	-	28.000	19.967	42.177	46.019	46.019	-	182.182
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	28.000	-	28.000	19.967	42.177	46.019	46.019	-	182.182
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	28.000	-	28.000	19.967	42.177	46.019	46.019	-	182.182
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: BLI 8030E80010 / CTG, 50MM, All Types is a new start in FY 2024. (E80011) Next Generation Combat Vehicle Ammunition 50mm x 228 XM1202 Target Practice with Tracer (TP-T) cartridge is a developmental training cartridge designed to be a low cost training cartridge with ballistic match to the developmental XM1204 High Explosive Airburst with Tracer (HEAB-T) cartridge. The XM1202 TP-T consists of an inert steel and aluminum projectile with glass reinforced Ultem rotating band, pyrotechnic tracer, double base or extruded propellant, an M36A2 percussion primer, and steel cartridge case. The XM1202 is planned to be packed 10 cartridges to a PA191 ammunition container. In FY19 a Defense Ordnance Technology Consortium (DOTC) Middle Tier Acquisition- Rapid Prototyping (MTA-RP) program to support the Optionally Manned Fighting Vehicle (OMFV) program and transition to Milestone C in Quarter two FY 2024 and Low Rate Initial Production in Quarter three FY2024. These items are Code B, not approved for service use. 50mm x 228 XM1203 Armor Piercing Fin Stabilized Discarding Sabot with Tracer (APFSDS-T) cartridge is a developmental anti-materiel cartridge designed to defeat near peer pacing and future vehicle threats. The XM1203 APFSDS-T consists of an aluminum sabot set, depleted uranium penetrator, stainless steel fin, plastic obturator band, pyrotechnic tracer, double base propellant, an M36A2 percussion primer, and steel cartridge case. The XM1203 is planned to be packed 10 cartridges to a PA191 ammunition container. In FY19 a Defense Ordnance Technology Consortium (DOTC) Middle Tier Acquisition- Rapid Prototyping (MTA-RP) program to support the Optionally Manned Fighting Vehicle (OMFV) program and transition to Milestone C in Quarter three FY2024 and Low Rate Initial Production in Quarter four FY2024. These items are Code B, not approved for service use. 50mm x 228 XM1204 High Explosive Airburst with Tracer (HEAB-T) cartridge is a developmental multipurpose anti-personnel tactical cartridge mean to service personnel targets in the open, in defilade, and within urban structures. The XM1204 HEAB-T consists of a titanium and steel with preformed fragments body, glass reinforced Ultem rotating band, multi-mode electro-mechanical programmable contact set fuze, pyrotechnic tracer, double base or extruded propellant, an M36A2 percussion primer, and steel cartridge case. The XM1204 is planned to be packed 10 cartridges to a PA191 ammunition container. In FY19 a Defense Ordnance Technology Consortium (DOTC) Middle Tier Acquisition- Rapid Prototyping (MTA-RP) program to support the Optionally Manned Fighting Vehicle (OMFV) program and transition to Milestone C in Quarter four FY2025 and Low Rate Initial Production in Quarter one FY2026. These items are Code B, not approved for service use.												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition						P-1 Line Item Number / Title: 8030E80010 / CTG, 50MM, All Types				
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E80011 / Next Generation Combat Vehicle Ammunition	P-5a, P-21	B		- / -	- / -	- / -	- / 28.000	- / -	- / 28.000
P-40	Total Gross/Weapon System Cost				- / -	- / -	- / -	- / 28.000	- / -	- / 28.000
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:
FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

FY 2024 Total Base dollars in the amount of \$28.000 million supports the procurement of 52,000 cartridges.

(E80011) Next Generation Combat Vehicle Ammunition
This is suite of ammunition used both as training unique items not used in combat and war reserve items used in combat. The FY 2024 request supports annual training and builds depot level and war reserve inventories in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$28.000 million support the procurement of 52,000 cartridges. E80011 is a New Start in FY 2024.
Type Classification Date: Pending

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30						P-1 Line Item Number / Title: 8030E80010 / CTG, 50MM, All Types						Item Number / Title [DODIC]: E80011 / Next Generation Combat Vehicle Ammunition								
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-						
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-		-		-		28.000		-		28.000						
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Net Procurement (P-1) (<i>\$ in Millions</i>)				-		-		-		28.000		-		28.000						
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Total Obligation Authority (<i>\$ in Millions</i>)				-		-		-		28.000		-		28.000						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-						
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
Complete Round ^(†)	-	-	-	-	-	-	-	-	-	874.78	30,967	27.089	-	-	-	874.78	30,967	27.089		
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	27.089	-	-	-	-	-	27.089		
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	27.089	-	-	-	-	-	27.089		
Support - Production Engineering Cost																				
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.911	-	-	-	-	-	0.911		
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	0.911	-	-	-	-	-	0.911		
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	28.000	-	-	-	-	-	28.000		
Remarks: FY 2024 Unit Cost is an average of all three cartridges TP-T, APFSDS-T and HEAB-T. Future Budget Exhibits will include additional Item Numbers that create separate SSN's for each cartridge and break out unit costs. ^(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30				P-1 Line Item Number / Title: 8030E80010 / CTG, 50MM, All Types				Item Number / Title [DODIC]: E80011 / Next Generation Combat Vehicle Ammunition				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round ^(†)		2024	TO BE SELECTED / TBS01	/	OTHER	Mar 2024	Mar 2025	30,967	874.78	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 8030E80010 / CTG, 50MM, All Types													Item Number / Title [DODIC]: E80011 / Next Generation Combat Vehicle Ammunition									
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2024												Fiscal Year 2025												BALANCE	
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
Complete Round																																
	1	2024	ARMY	30.967	.000	30.967						A	-	-	-	-	-	-	-	-	-	-	-	-	2.587	2.580	2.580	2.580	2.580	2.580	2.580	12.900
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30										P-1 Line Item Number / Title: 8030E80010 / CTG, 50MM, All Types										Item Number / Title [DODIC]: E80011 / Next Generation Combat Vehicle Ammunition													
Cost Elements (Units in Thousands)							Fiscal Year 2026										Fiscal Year 2027													BALANCE			
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026										Calendar Year 2027																
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP		
Complete Round																																	
	1	2024	ARMY		30.967	18.067	12.900	2.580	2.580	2.580	2.580	2.580																					.000
								OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30					P-1 Line Item Number / Title: 8030E80010 / CTG, 50MM, All Types				Item Number / Title [DODIC]: E80011 / Next Generation Combat Vehicle Ammunition			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	1,000	1,000,000	2,000,000	6	6	12	18	6	6	12	18

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

P-1 Line Item Number / Title:
0050E89600 / 60MM Mortar, All Types

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	666.048	30.569	30.262	35.160	-	35.160	50.997	39.289	36.522	47.187	-	936.034
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	666.048	30.569	30.262	35.160	-	35.160	50.997	39.289	36.522	47.187	-	936.034
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	666.048	30.569	30.262	35.160	-	35.160	50.997	39.289	36.522	47.187	-	936.034

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

(E89600) 60MM Mortar, All Types

This line includes 60mm Mortar Ammunition, All Types.

The 60mm Mortar cartridges are designed for use with the M224A1 Lightweight Company Mortar System (LWCMS) used by the Stryker Brigade Combat Teams as well as light infantry battalions including Airborne, Air Assault and Ranger. The short minimum range of the M224 makes the 60mm mortar ammunition well suited for close protective fires against an assaulting enemy, for block-to-block fighting in cities, and combat over close terrain with restricted visibility.

(E85700) CTG, 60mm Mortar IR ILLUM, M767 Series w/MTSQ Fuze

The M767 cartridge is a fin stabilized, mortar cartridge that consists of a M776 Mechanical Time Superquick (MTSQ) fuze, a thin wall steel body tube and aluminum tail cone that contains the payload (parachute and canister), and a fin assembly that contains the ignition cartridge and propelling charges. The payload is base ejected and upon ignition produces infrared (IR) illumination. The advantage of the infrared over conventional illumination is that there is minimal visible light. This reduces the possibility of exposing forward friendly troop positions while also allowing covert adjustment of fire at greater observation distances through use of passive Night Vision Devices (NVD). The M721/M767 Illumination cartridges (Range 300 meter minimum to 3,175 meter maximum) are ballistically similar to the M720A1 High Explosive (HE) cartridge, allowing a gun to illuminate and fire on the same target without adjustments.

This item is Code A, approved for service use.

(E92200) CTG, 60mm Mortar FRTR, M769 Series w/Practice Fuze

The M769 is a low-cost, full range, training round (FRTR) that will replace a percentage of the standard HE rounds used in 60mm mortar training. The M769 FRTR (Range 70 meter minimum to 3,500 meter maximum) has been designed to provide the user with realistic training at a fraction of the cost. It is identical in shape, size and weight to the M720/M720A1 High Explosive cartridges. The flash, bang and smoke signature provided by the M775 fuze is channeled to exhaust holes in the rear of the cartridge through the use of a center vent tube.

This item is Code A, approved for service use.

(E92900) CTG, 60mm Mortar HE, M768 Series w/PD Fuze

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition		P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>The 60mm HE cartridges are Insensitive Munitions (IM) enhanced, HE rounds. The M768 HE cartridge (Range 70 meter minimum to 3,400 meter maximum) is used with the new M783 dual safety, point detonating/delay fuze, tail fin assembly, and high fragmentation steel (HF-1) shell body loaded with approximately 2 pounds. of an IM explosive. This cartridge is used primarily in training because it is significantly less expensive than the M720A1, the preferred war fighting cartridge. However, the M768 is lethal and can be used in combat.</p> <p>This item is Code A, approved for service use.</p> <p>(E93900) CTG, 60mm Mortar HE M720 Series w/MOFM</p> <p>The 60mm HE cartridges are IM enhanced, HE rounds. The M720 HE cartridge (range 70 meter minimum to 3,400 meter maximum) with Multi-Option Fuze is used against personnel and materiel providing both fragmentation and blast effects. Lethality is maintained by using a high fragmentation steel (HF-1) shell body loaded with approximately two pounds. of an IM explosive. The M720A1 incorporates the highly reliable and countermeasure resistant M734A1 multi-option fuze. When the fuze is set in the proximity mode, it functions at a height over the target that is optimized for lethality.</p> <p>This item is Code A, approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army							Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition					P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E85700 / CTG, 60mm Mortar IR ILLUM, M767 Series w/MTSQ Fuze [BA04]	P-5a	A		- / 61.356	- / -	- / 4.745	- / -	- / -	- / -
P-5	E92200 / CTG, 60mm Mortar FRTR, M769 Series w/Practice Fuze [BA15]	P-5a	A		- / 211.108	- / 9.375	- / 13.401	- / 14.611	- / -	- / 14.611
P-5	E92900 / CTG, 60mm Mortar HE, M768 Series w/PD Fuze [BA45]	P-5a	A		- / 318.153	- / 9.990	- / 12.116	- / 0.469	- / -	- / 0.469
P-5	E93900 / CTG, 60mm Mortar HE, M720 Series w/MOFM	P-5a	A		- / 75.431	- / 11.204	- / -	- / 20.080	- / -	- / 20.080
P-40	Total Gross/Weapon System Cost				- / 666.048	- / 30.569	- / 30.262	- / 35.160	- / -	- / 35.160
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The FY 2024 Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life cycle. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. FY 2024 Total Base dollars in the amount of \$35.160 million supports the procurement of 87,873 rounds. E85700 - CTG, 60mm Mortar IR ILLUM, M767 Series w/MTSQ Fuze This is a training standard item used in training and combat. There is no FY 2024 request. TYPE CLASSIFICATION DATE: DECEMBER 1999 E92200 - CTG, 60mm Mortar FRTR, M769 Series w/Practice Fuze This is a training unique item not used in combat. FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$14.611 million supports the procurement of 60,228 rounds. TYPE CLASSIFICATION DATE: 2001 E92900 - CTG, 60mm Mortar HE, M768 Series w/PD Fuze This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$0.469 million supports engineering for items in production. TYPE CLASSIFICATION DATE: 2001 E93900 - CTG, 60mm Mortar HE, M720 Series w/MOFM This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.										

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition		P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
FY 2024 Total Base dollars in the amount of \$20.080 million supports the procurement of 27,645 rounds. TYPE CLASSIFICATION DATE: 2001		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types						Item Number / Title [DODIC]: E85700 / CTG, 60mm Mortar IR ILLUM, M767 Series w/MTSQ Fuze [BA04]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-					
Gross/Weapon System Cost (<i>\$ in Millions</i>)				61.356		-		4.745		-		-		-					
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Net Procurement (P-1) (<i>\$ in Millions</i>)				61.356		-		4.745		-		-		-					
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Total Obligation Authority (<i>\$ in Millions</i>)				61.356		-		4.745		-		-		-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Hardware Cost																			
Recurring Cost																			
LOAD, ASSEMBLE, PACK (LAP) ^(†)	141.97	24,017	3.410	-	-	-	195.56	5,926	1.159	-	-	-	-	-	-	-	-	-	
FIN ASSEMBLY M27 ^(†)	7.49	24,737	0.185	-	-	-	7.62	6,103	0.047	-	-	-	-	-	-	-	-	-	
M702 IGNITION CARTRIDGE ^(†)	14.59	24,737	0.361	-	-	-	15.60	6,103	0.095	-	-	-	-	-	-	-	-	-	
PROPELLANT CHARGE, M235 ^(†)	12.97	98,950	1.284	-	-	-	15.75	24,415	0.385	-	-	-	-	-	-	-	-	-	
FUZE MTSQ, M776 ^(†)	214.90	24,737	5.316	-	-	-	237.44	6,103	1.449	-	-	-	-	-	-	-	-	-	
BODY TUBE, 60MM ILLUM ^(†)	22.21	24,737	0.549	-	-	-	29.32	6,103	0.179	-	-	-	-	-	-	-	-	-	
TAIL CONE, 60MM ILLUM ^(†)	18.57	24,737	0.459	-	-	-	24.32	6,103	0.148	-	-	-	-	-	-	-	-	-	
PARACHUTE, 60MM ^(†)	22.00	24,737	0.544	-	-	-	26.00	6,103	0.159	-	-	-	-	-	-	-	-	-	
IR ILLUM CANNISTER, 60MM ^(†)	88.08	24,737	2.179	-	-	-	89.33	6,103	0.545	-	-	-	-	-	-	-	-	-	
FIBER CONTAINER PA 175, 60MM ^(†)	3.54	24,737	0.087	-	-	-	3.90	6,103	0.024	-	-	-	-	-	-	-	-	-	

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types						Item Number / Title [DODIC]: E85700 / CTG, 60mm Mortar IR ILLUM, M767 Series w/MTSQ Fuze [BA04]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
METAL CONTAINER PA191, 60MM ^(†)	46.85	3,046	0.143	-	-	-	50.02	740	0.037	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	14.517	-	-	-	-	-	4.226	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	14.517	-	-	-	-	-	4.226	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.321	-	-	-	-	-	0.091	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.321	-	-	-	-	-	0.091	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	46.517	-	-	-	-	-	0.428	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	46.517	-	-	-	-	-	0.428	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	61.356	-	-	-	-	-	4.745	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types					Item Number / Title [DODIC]: E85700 / CTG, 60mm Mortar IR ILLUM, M767 Series w/MTSQ Fuze [BA04]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2023	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	May 2023	May 2025	5,926	195.56	Y		
FIN ASSEMBLY M27		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2023	Dec 2024	6,103	7.62	Y		
M702 IGNITION CARTRIDGE		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	6,103	15.60	Y		
PROPELLANT CHARGE, M235		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	24,415	15.75	Y		
FUZE MTSQ, M776		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Aug 2023	Feb 2025	6,103	237.44	Y		
BODY TUBE, 60MM ILLUM		2023	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Oct 2023	Apr 2025	6,103	29.32	Y		
TAIL CONE, 60MM ILLUM		2023	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Oct 2023	Apr 2025	6,103	24.32	Y		
PARACHUTE, 60MM		2023	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Sep 2024	6,103	26.00	Y		
IR ILLUM CANNISTER, 60MM		2023	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Mar 2023	Sep 2024	6,103	89.33	Y		
FIBER CONTAINER PA 175, 60MM		2023	UNITED AMMUNITION CONTAINER / WYNNEWOOD, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Oct 2023	Apr 2025	6,103	3.90	Y		
METAL CONTAINER PA191, 60MM		2023	BWAY CORPORATION / ATLANTA, GA	Option / IDIQ	PICATINNY ARSENAL, NJ	Oct 2023	Apr 2025	740	50.02	Y		
Remarks: M27 FINS: IDIQ awarded (FY 2017) to multiple contractors. Requirements are competed among the following contractors: Gayston, Springboro, OH. Flexible Concepts Elkhart, IN. Ignition Cartridges: IDIQ awarded (FY 2018) to multiple contractors. Requirements are competed among the following contractors: Nammo Pocal INC., Scranton, PA and Pyrotechnique by Grucci INC., Radford, VA. Body Tube / Tail Cones: IDIQ awarded (FY 2018) to multiple contractors. Requirements are competed among the following contractors: Medico Industries Inc., Wilkes Barre, PA and Lewis Engineering Company, Marshall, TX. Propellant Charges: IDIQ awarded (FY 2018) to multiple contractors. Requirements are competed among the following contractors: American Ordnance, Middletown, IA. and General Dynamics, Marion, IL. New FY 2023 IDIQ component contracts to be competed.												

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33							P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types						Item Number / Title [DODIC]: E92200 / CTG, 60mm Mortar FRTR, M769 Series w/Practice Fuze [BA15]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base		FY 2024 OCO		FY 2024 Total	
Procurement Quantity (Units in Each)				-			-			-			-		-		-	
Gross/Weapon System Cost (\$ in Millions)				211.108			9.375			13.401			14.611		-		14.611	
Less PY Advance Procurement (\$ in Millions)				-			-			-			-		-		-	
Net Procurement (P-1) (\$ in Millions)				211.108			9.375			13.401			14.611		-		14.611	
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-		-		-	
Total Obligation Authority (\$ in Millions)				211.108			9.375			13.401			14.611		-		14.611	
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-			-			-			-		-		-	
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-		-		-	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Load, Assemble, Pack (LAP) ^(†)	18.53	340,948	6.318	20.32	51,375	1.044	20.70	68,149	1.411	22.47	60,228	1.353	-	-	-	22.47	60,228	1.353
Fuze Practice, M775 ^(†)	20.34	351,177	7.142	22.15	52,916	1.172	21.94	70,193	1.540	23.24	62,034	1.442	-	-	-	23.24	62,034	1.442
Shell Body, 60MM FRPC ^(†)	36.84	351,177	12.936	38.39	52,916	2.031	39.32	70,193	2.760	47.31	62,034	2.935	-	-	-	47.31	62,034	2.935
M702 Ignition Cartridge ^(†)	14.45	351,177	5.073	16.39	52,916	0.867	15.60	70,193	1.095	38.05	62,034	2.360	-	-	-	38.05	62,034	2.360
Propellant Charge, M235 ^(†)	12.40	1,404,706	17.420	15.53	211,665	3.287	15.75	280,773	4.422	16.06	248,139	3.985	-	-	-	16.06	248,139	3.985
Fin Assembly M27 ^(†)	7.26	351,177	2.550	8.10	52,916	0.429	7.62	70,193	0.535	8.26	62,034	0.512	-	-	-	8.26	62,034	0.512
Subtotal: Recurring Cost	-	-	51.439	-	-	8.831	-	-	11.763	-	-	12.588	-	-	-	-	-	12.588
Subtotal: Hardware Cost	-	-	51.439	-	-	8.831	-	-	11.763	-	-	12.588	-	-	-	-	-	12.588
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	2.021	-	-	0.310	-	-	0.475	-	-	0.477	-	-	-	-	-	0.477
Subtotal: Support - Acceptance Testing Cost	-	-	2.021	-	-	0.310	-	-	0.475	-	-	0.477	-	-	-	-	-	0.477
Support - Production Engineering Cost																		
Production Engineering	-	-	157.647	-	-	0.235	-	-	1.164	-	-	1.547	-	-	-	-	-	1.547
Subtotal: Support - Production Engineering Cost	-	-	157.647	-	-	0.235	-	-	1.164	-	-	1.547	-	-	-	-	-	1.547

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33					P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types					Item Number / Title [DODIC]: E92200 / CTG, 60mm Mortar FRTR, M769 Series w/Practice Fuze [BA15]				
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:				

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	211.108	-	-	9.375	-	-	13.401	-	-	14.611	-	-	-	-	-	14.611

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types						Item Number / Title [DODIC]: E92200 / CTG, 60mm Mortar FRTR, M769 Series w/Practice Fuze [BA15]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Load, Assemble, Pack (LAP)		2022	DAY & ZIMMERMAN (KSAAP) / PARSONS, KS	Option / IDIQ	ROCK ISLAND ARSENAL, IL	May 2022	May 2024	51,375	20.32	Y		
Load, Assemble, Pack (LAP)		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2023	May 2025	68,149	20.70	Y		
Load, Assemble, Pack (LAP)		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2024	May 2026	60,228	22.47	Y		
Fuze Practice, M775		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Dec 2021	Jun 2023	52,916	22.15	Y		
Fuze Practice, M775		2023	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	70,193	21.94	Y		
Fuze Practice, M775		2024	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	62,034	23.24	Y		
Shell Body, 60MM FRPC		2022	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Jan 2022	Feb 2023	52,916	38.39	Y		
Shell Body, 60MM FRPC		2023	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	70,193	39.32	Y		
Shell Body, 60MM FRPC		2024	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	62,034	47.31	Y		
M702 Ignition Cartridge		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2022	Sep 2023	52,916	16.39	Y		
M702 Ignition Cartridge		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	70,193	15.60	Y		
M702 Ignition Cartridge		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	62,034	38.05	Y		
Propellant Charge, M235		2022	GENERAL DYNAMICS ORD & TAC / MARION, IL	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2022	Nov 2022	211,665	15.53	Y		
Propellant Charge, M235		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	280,773	15.75	Y		
Propellant Charge, M235		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	248,139	16.06	Y		
Fin Assembly M27		2022	GAYSTON CORPORATION / MIAMISBURG, OH	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2022	Apr 2023	52,916	8.10	Y		
Fin Assembly M27		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Dec 2023	Jun 2025	70,193	7.62	Y		
Fin Assembly M27		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	62,034	8.26	Y		
Remarks:												

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types	Item Number / Title [DODIC]: E92200 / CTG, 60mm Mortar FRTR, M769 Series w/Practice Fuze [BA15]
LAP: IDIQ awarded (2018) to multiple contractors. Requirements are competed among the following contractors: Nammo Pocal INC., Scranton, PA Day and Zimmerman, Parsons, KS., M27 FINS: IDIQ awarded (FY 2017) to multiple contractors. Requirements are competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts Elkhart, IN. Ignition Cartridges: IDIQ awarded (FY 2018) to multiple contractors. Requirements are competed among the following contractors: Nammo Pocal INC., Scranton, PA and Pyrotechnique by Grucci INC., Radford, VA. Shell body: Single award IDIQ (FY 2018) to Medico Industries Inc., Wilkes Barre, PA. Propellant Charges: IDIQ awarded (FY 2018) to multiple contractors. Requirements are competed among the following contractors: American Ordnance, Middletown, IA; and General Dynamics, Marion, IL. New FY 2023 IDIQ component contracts to be competed.		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types						Item Number / Title [DODIC]: E92900 / CTG, 60mm Mortar HE, M768 Series w/PD Fuze [BA45]						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				318.153		9.990		12.116		0.469		-		0.469				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				318.153		9.990		12.116		0.469		-		0.469				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				318.153		9.990		12.116		0.469		-		0.469				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	56.94	206,565	11.761	119.86	18,635	2.234	70.07	24,083	1.687	-	-	-	-	-	-	-	-	-
SHELL BODY (HF1), 60MM HE ^(†)	40.35	212,764	8.584	42.59	19,194	0.817	43.06	24,805	1.068	-	-	-	-	-	-	-	-	-
M702 IGNITION CARTRIDGE ^(†)	17.95	212,764	3.819	16.39	19,194	0.315	15.61	24,805	0.387	-	-	-	-	-	-	-	-	-
PROPELLANT CHARGE, M235 ^(†)	11.82	851,048	10.059	15.53	76,776	1.192	15.75	99,222	1.563	-	-	-	-	-	-	-	-	-
*COMP B TYPE I GRADE A ^(†)	-	-	-	12.81	34,475	0.442	-	-	-	-	-	-	-	-	-	-	-	-
FIN ASSEMBLY M27 ^(†)	7.35	212,764	1.563	7.55	19,194	0.145	7.63	24,805	0.189	-	-	-	-	-	-	-	-	-
FUZE POINT DETONATOR M783 ^(†)	176.86	212,764	37.629	186.12	19,194	3.572	177.40	24,805	4.400	-	-	-	-	-	-	-	-	-
EXPLOSIVE FILL IMX-104 ^(†)	22.33	570,177	12.735	-	-	-	24.15	44,554	1.076	-	-	-	-	-	-	-	-	-
PBXW-12 BULK EXPLOSIVE ^(†)	96.46	6,289	0.607	-	-	-	114.33	1,445	0.165	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	86.756	-	-	8.717	-	-	10.536	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	86.756	-	-	8.717	-	-	10.536	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33							P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types							Item Number / Title [DODIC]: E92900 / CTG, 60mm Mortar HE, M768 Series w/PD Fuze [BA45]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Support - Acceptance Testing Cost																			
First Article Test	-	-	0.176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acceptance Test	-	-	1.551	-	-	0.092	-	-	0.260	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Acceptance Testing Cost	-	-	1.727	-	-	0.092	-	-	0.260	-	-	-	-	-	-	-	-	-	
Support - Government Furnished Materials Cost																			
Government Furnished Materials	-	-	-	-	-	-0.442	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Government Furnished Materials Cost	-	-	-	-	-	-0.442	-	-	-	-	-	-	-	-	-	-	-	-	
Support - Production Engineering Cost																			
Production Engineering	-	-	229.670	-	-	1.623	-	-	1.319	-	-	0.469	-	-	-	-	-	0.469	
Subtotal: Support - Production Engineering Cost	-	-	229.670	-	-	1.623	-	-	1.319	-	-	0.469	-	-	-	-	-	0.469	
Gross/Weapon System Cost	-	-	318.153	-	-	9.990	-	-	12.116	-	-	0.469	-	-	-	-	-	0.469	

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33				P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types				Item Number / Title [DODIC]: E92900 / CTG, 60mm Mortar HE, M768 Series w/PD Fuze [BA45]			

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	DAY & ZIMMERMAN (KSAAP) / PARSONS, KS	C / IDIQ	ROCK ISLAND ARSENAL, IL	Sep 2022	Jun 2025	18,635	119.86	Y		
LOAD, ASSEMBLE, PACK (LAP)		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2023	May 2026	24,083	70.07	Y		
SHELL BODY (HF1), 60MM HE		2022	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Jan 2022	Feb 2024	19,194	42.59	Y		
SHELL BODY (HF1), 60MM HE		2023	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	24,805	43.06	Y		
M702 IGNITION CARTRIDGE		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2022	Nov 2022	19,194	16.39	Y		
M702 IGNITION CARTRIDGE		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	24,805	15.61	Y		
PROPELLANT CHARGE, M235		2022	GENERAL DYNAMICS ORD & TAC / MARION, IL	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2022	Jan 2023	76,776	15.53	Y		
PROPELLANT CHARGE, M235		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	99,222	15.75	Y		
*COMP B TYPE I GRADE A		2022	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE,	GFM	PICATINNY ARSENAL, NJ	Sep 2022	Sep 2023	34,475	12.81	N		
FIN ASSEMBLY M27		2022	FLEXIBLE CONCEPTS, INC. / ELKHART, IN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2022	Apr 2023	19,194	7.55	Y		
FIN ASSEMBLY M27		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	24,805	7.63	Y		
FUZE POINT DETONATOR M783		2022	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Dec 2021	Sep 2023	19,194	186.12	Y		
FUZE POINT DETONATOR M783		2023	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Apr 2023	Oct 2025	24,805	177.40	Y		
EXPLOSIVE FILL IMX-104		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2025	44,554	24.15	Y		
PBXW-12 BULK EXPLOSIVE		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Feb 2025	1,445	114.33	Y		

Remarks:

HE LAP: IDIQ awarded (FY 2017) to multiple contractors. Requirements are competed among the following contractors: Day and Zimmerman, Parsons, KS; American Ordnance, Middletown, IA. General Dynamics, Le Gardeur, QC, Canada. M27 FINS: IDIQ awarded (FY 2017) to multiple contractors. Requirements are competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts Elkhart, IN. Ignition Cartridges: IDIQ awarded (FY 2018) to multiple contractors. Requirements are competed among the following contractors: Nammo Pocal INC., Scranton, PA and Pyrotechnique by Grucci INC., Radford, VA. Shell Body: IDIQ awarded (FY 2018) to General Dynamics OTS, Wilkes Barre, PA. Propellant Charges: IDIQ awarded (FY 2018) to multiple contractors. Requirements are competed among the following contractors: American Ordnance, Middletown, IA; and General Dynamics, Marion, IL. New FY 2023 IDIQ component contracts to be competed.

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types						Item Number / Title [DODIC]: E93900 / CTG, 60mm Mortar HE, M720 Series w/MOFM						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				75.431		11.204		-		20.080		-		20.080				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				75.431		11.204		-		20.080		-		20.080				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				75.431		11.204		-		20.080		-		20.080				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	-	119.86	20,637	2.474	-	-	-	150.56	27,645	4.162	-	-	-	150.56	27,645	4.162
FIN ASSEMBLY M27 ^(†)	-	-	-	7.55	21,256	0.160	-	-	-	8.26	28,474	0.235	-	-	-	8.26	28,474	0.235
M702 IGNITION CARTRIDGE ^(†)	-	-	-	18.01	21,256	0.383	-	-	-	38.05	28,474	1.083	-	-	-	38.05	28,474	1.083
PROPELLANT CHARGE, M235 ^(†)	-	-	-	15.98	85,024	1.359	-	-	-	16.06	113,897	1.829	-	-	-	16.06	113,897	1.829
EXPLOSIVE FILL IMX-104 ^(†)	-	-	-	-	-	-	-	-	-	26.13	51,143	1.336	-	-	-	26.13	51,143	1.336
PBXW-12 BULK EXPLOSIVE ^(†)	-	-	-	-	-	-	-	-	-	126.18	1,659	0.209	-	-	-	126.18	1,659	0.209
FUZE MOFM, M734A1 ^(†)	-	-	-	260.26	21,256	5.532	-	-	-	283.41	28,474	8.070	-	-	-	283.41	28,474	8.070
SHELL BODY (HF1), 60MM HE ^(†)	-	-	-	42.59	21,256	0.905	-	-	-	44.31	28,474	1.262	-	-	-	44.31	28,474	1.262
*COMP B TYPE I GRADE A ^(†)	-	-	-	13.19	38,178	0.504	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	11.316	-	-	-	-	-	18.187	-	-	-	-	-	18.187
Subtotal: Hardware Cost	-	-	-	-	-	11.316	-	-	-	-	-	18.187	-	-	-	-	-	18.187

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33							P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types						Item Number / Title [DODIC]: E93900 / CTG, 60mm Mortar HE, M720 Series w/MOFM					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.166	-	-	-	-	-	0.092	-	-	-	-	-	0.092
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.166	-	-	-	-	-	0.092	-	-	-	-	-	0.092
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-	-	-	-0.504	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Government Furnished Materials Cost	-	-	-	-	-	-0.504	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	75.431	-	-	0.225	-	-	-	-	-	1.801	-	-	-	-	-	1.801
Subtotal: Support - Production Engineering Cost	-	-	75.431	-	-	0.225	-	-	-	-	-	1.801	-	-	-	-	-	1.801
Gross/Weapon System Cost	-	-	75.431	-	-	11.204	-	-	-	-	-	20.080	-	-	-	-	-	20.080

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33				P-1 Line Item Number / Title: 0050E89600 / 60MM Mortar, All Types				Item Number / Title [DODIC]: E93900 / CTG, 60mm Mortar HE, M720 Series w/MOFM			

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	DAY & ZIMMERMAN (KSAAP) / PARSONS, KS	Option / IDIQ	PICATINNY ARSENAL, NJ	Sep 2022	Oct 2025	20,637	119.86	Y		
LOAD, ASSEMBLE, PACK (LAP)		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2024	May 2027	27,645	150.56	N		
FIN ASSEMBLY M27		2022	FLEXIBLE CONCEPTS, INC. / ELKHART, IN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Aug 2022	Aug 2023	21,256	7.55	Y		
FIN ASSEMBLY M27		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	28,474	8.26	Y		
M702 IGNITION CARTRIDGE		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Aug 2022	Apr 2023	21,256	18.01	Y		
M702 IGNITION CARTRIDGE		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	28,474	38.05	Y		
PROPELLANT CHARGE, M235		2022	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Aug 2022	May 2023	85,024	15.98	Y		
PROPELLANT CHARGE, M235		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	113,897	16.06	Y		
EXPLOSIVE FILL IMX-104		2024	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSFORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2026	51,143	26.13	Y		
PBXW-12 BULK EXPLOSIVE		2024	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSFORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2026	1,659	126.18	Y		
FUZE MOFM, M734A1		2022	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Dec 2021	Jan 2024	21,256	260.26	Y		
FUZE MOFM, M734A1		2024	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2026	28,474	283.41	Y		
SHELL BODY (HF1), 60MM HE		2022	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Jul 2022	Jul 2024	21,256	42.59	Y		
SHELL BODY (HF1), 60MM HE		2024	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	28,474	44.31	Y		
*COMP B TYPE I GRADE A		2022	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE,	GFM	PICATINNY ARSENAL, NJ	Sep 2022	Sep 2024	38,178	13.19	N		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

P-1 Line Item Number / Title:
3584E76000 / 81MM Mortar, All Types

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	905.526	54.043	54.416	40.562	-	40.562	50.138	60.726	61.595	64.582	-	1,291.588
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	905.526	54.043	54.416	40.562	-	40.562	50.138	60.726	61.595	64.582	-	1,291.588
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	905.526	54.043	54.416	40.562	-	40.562	50.138	60.726	61.595	64.582	-	1,291.588
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This budget line includes 81mm Mortar Ammunition, All Types.

The 81mm Mortar cartridges are designed for use with the M252 Mortar Weapon System used by the Stryker Brigade Combat Teams as well as light infantry battalions including Airborne, Air Assault and Ranger.

(E18403) CTG, MORTAR, 81MM HE M821 W/MOFM

The 81mm High Explosive (HE) cartridges are Insensitive Munitions (IM) enhanced. The 81mm HE cartridges consist of a fuze, a threaded plastic fuze adapter, a High Fragmentation (HF)-1 steel projectile body loaded with approximately three pounds of IMX-104 explosive, a plastic obturating ring, a M24 Fin, the M220 Propelling Charges, and a M299 Ignition Cartridge. The M821A2 HE (range 70 meter minimum to 5,859 meter maximum) also incorporates the highly reliable and robust electronic countermeasure resistant M734A1 multi-option fuze. When the fuze is set in the proximity mode, it functions at a height over the target that is optimized for lethality. The IM features of this cartridge reduce the vulnerability to unplanned stimuli, e.g. fire/heat, shock and impact. In order to maintain the required effectiveness while implementing IM features, the M821A4 cartridge incorporates warhead modifications in order to meet all requirements. Specifically, the warhead will consists of a fragmentation sleeve with an HF-1 steel body. All other components are the same and utilize existing production lines and production contracts. These items are Code A, approved for service use.

(E18404) CTG, MORTAR, 81MM HE M889 SERIES W/PD FUZE

The 81mm HE cartridges are IM enhanced. The 81mm HE cartridges consist of a fuze, a threaded plastic fuze adapter, a HF-1 steel projectile body loaded with approximately three pounds of IMX-104 explosive, a plastic obturating ring, a M24 Fin, the M220 Propelling Charges, and a M299 Ignition Cartridge. The M889A4 HE (range 70 meter minimum to 5,859 meter maximum) is used with the new M783 dual safety, point detonating/delay fuze. This cartridge is used primarily in training because it is significantly less expensive than the M821A2, the preferred war fighting cartridge. However, the M889A4 is lethal and can be used in combat. The IM features of this cartridge reduce the vulnerability to unplanned stimuli, e.g. fire/heat, shock and impact, while maintaining or exceeding the same level of effectiveness in combat. These items are Code A, approved for service use.

(E69600) CTG, MORTAR, 81MM FRTR M879 SERIES W/PRACTICE FUZE

The M879 is a low-cost, full range, training round (FRTR) that will replace a percentage of the standard HE rounds used in 81mm mortar training. The M879 FRPC (range 70 meter minimum to 5,800 meter maximum) has been designed to provide the user with realistic training at a fraction of the cost. It is identical in shape, size and weight to the M889A4/M821A4 HE cartridges. The flash, bang and smoke signature provided by the M751 practice fuze is channeled to exhaust holes in the rear of the cartridge through the use of a center vent tube.

This item is Code A, approved for service use.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition		P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E76100) - CTG, MORTAR, 81MM VL ILLUM M853 SERIES W/MTSQ FUZE</p> <p>The M853A1 cartridge is a fin stabilized, mortar cartridge that consists of a M772 Mechanical Time Super Quick (MTSQ) fuze, a thin wall aluminum body tube and aluminum tail cone that contains the payload (parachute and canister), and a fin assembly that contains the ignition cartridge and propelling charges. The payload is base ejected and upon ignition produces visible light illumination. This visible light illumination allows for monitoring of enemy activities and adjustment of fire at greater observation distances during night operations. It also provides a means for day/night signaling. It is particularly useful in combined operations with allies who may not have night vision devices (NVDs). This round illuminates to the full range of the HE round, which allows adjustment of fire at any distance out to the maximum range. The M853A1 (range 300 meter minimum and 5,050 maximum) is range-matched to the 81mm HE and smoke cartridges.</p> <p>This item is Code A, approved for service use.</p> <p>(E90000) - CTG, MORTAR, 81MM IR ILLUM M816 SERIES W/MTSQ FUZE</p> <p>The M816 cartridge is a fin stabilized, mortar cartridge that consists of a M772 Mechanical Time Super Quick (MTSQ) fuze, a thin wall aluminum body tube and aluminum tail cone that contains the payload (parachute and canister), and a fin assembly that contains the ignition cartridge and propelling charges. The payload is base ejected and upon ignition produces infra-red illumination. The advantage is that there is minimal visible light. This reduces the possibility of exposing forward friendly troop positions while also allowing covert adjustment of fire at greater observation distances through the use of passive NVDs. This round illuminates to the full range of the HE round, which allows adjustment of fire at any distance out to the maximum range. The M853A1 (range 300 meter minimum and 5,050 maximum) is range-matched to the 81mm HE and smoke cartridges.</p> <p>This item is Code A, approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army							Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition					P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E18403 / CTG, 81mm Mortar HE, M821 Series w/MOFM [CA66]	P-5a, P-21	A		- / 357.179	- / 35.157	- / 31.650	- / 26.206	- / -	- / 26.206
P-5	E18404 / CTG, 81mm Mortar HE, M889 Series w/PD Fuze [CA63]	P-5a	A		- / 175.922	- / -	- / 9.903	- / -	- / -	- / -
P-5	E69600 / CTG, 81mm FRTR, M879 Series w/Practice Fuze [C875]	P-5a	A		- / 218.563	- / 8.598	- / 9.207	- / 14.356	- / -	- / 14.356
P-5	E76100 / CTG, 81mm Mortar VL ILLUM, M853 Series w/MTSQ Fuze [C871]	P-5a	A		- / 96.052	- / 10.288	- / -	- / -	- / -	- / -
P-5	E90000 / CTG, 81mm Mortar IR ILLUM, M816 Series w/MTSQ Fuze	P-5a	A		- / 57.810	- / -	- / 3.656	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 905.526	- / 54.043	- / 54.416	- / 40.562	- / -	- / 40.562
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:
The FY 2024 Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2024 Total Base dollars in the amount of \$40.562 million supports procurement of 73,935 cartridges.

(E18403) CTG, MORTAR, 81MM HE M821 SERIES W/MOFM
This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$26.206 million supports procurement of 20,275 cartridges.
TYPE CLASSIFICATION DATE: June 1996

(E18404) CTG, MORTAR 81MM HE M889 SERIES W/PD FUZE
This is a training standard item used in training and combat. There is no FY 2024 request.
TYPE CLASSIFICATION DATE: July 2009

(E69600) CTG, MORTAR, 81MM FRTR M879 SERIES W/PRACTICE FUZE
This is a training unique item not used in combat. FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$14.356 million supports procurement of 53,660 rounds.
TYPE CLASSIFICATION DATE: August 1986

(E76100) CTG, MORTAR, 81MM VL ILLUM M853A1 SERIES W/MTSQ FUZE
This is a training standard item used in training and combat. There is no FY 2024 request.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition		P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
TYPE CLASSIFICATION DATE: December 1986 (E90000) CTG, MORTAR, 81MM IR ILLUM M816 This is a training standard item used in training and combat. There is no FY 2024 request. TYPE CLASSIFICATION DATE: December 1986		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types						Item Number / Title [DODIC]: E18403 / CTG, 81mm Mortar HE, M821 Series w/MOFM [CA66]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				357.179		35.157		31.650		26.206		-		26.206				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				357.179		35.157		31.650		26.206		-		26.206				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				357.179		35.157		31.650		26.206		-		26.206				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	348.02	80,279	27.939	527.31	31,356	16.534	416.51	29,937	12.469	548.70	20,275	11.125	-	-	-	548.70	20,275	11.125
SHELL BODY, 81MM HE M821A4 ^(†)	83.62	82,687	6.915	89.37	32,296	2.886	89.94	30,834	2.773	92.65	20,883	1.935	-	-	-	92.65	20,883	1.935
FIN MORTAR CTG M24 F/81MM ^(†)	16.91	82,687	1.398	19.21	32,296	0.620	18.14	30,834	0.559	20.65	20,883	0.431	-	-	-	20.65	20,883	0.431
IGN CTG M299 ^(†)	15.32	82,687	1.267	17.51	32,296	0.566	16.61	30,834	0.512	18.53	20,883	0.387	-	-	-	18.53	20,883	0.387
PROPELLANT CHARGE, M658 ^(†)	13.33	330,750	4.410	16.78	129,187	2.168	14.74	123,340	1.818	18.49	83,533	1.545	-	-	-	18.49	83,533	1.545
FUZE MOFM, M734A1 ^(†)	254.90	82,687	21.077	260.26	32,296	8.405	259.23	30,834	7.993	283.41	20,883	5.918	-	-	-	283.41	20,883	5.918
PBXW-12 BULK EXPLOSIVE ^(†)	93.18	7,979	0.743	85.79	3,763	0.323	114.33	3,592	0.411	126.18	2,433	0.307	-	-	-	126.18	2,433	0.307
EXPLOSIVE FILL IMX-104 ^(†)	22.30	315,390	7.033	26.39	40,076	1.058	24.15	85,320	2.060	26.13	57,784	1.510	-	-	-	26.13	57,784	1.510
*EXPLOSIVE FILL IMX-104 ^(†)	-	-	-	24.88	91,618	2.279	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	70.781	-	-	34.840	-	-	28.596	-	-	23.158	-	-	-	-	-	23.158
Subtotal: Hardware Cost	-	-	70.781	-	-	34.840	-	-	28.596	-	-	23.158	-	-	-	-	-	23.158
Support - Acceptance Testing Cost																		

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33							P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types						Item Number / Title [DODIC]: E18403 / CTG, 81mm Mortar HE, M821 Series w/MOFM [CA66]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Acceptance Test	-	-	0.716	-	-	0.300	-	-	0.284	-	-	0.208	-	-	-	-	-	0.208
Subtotal: Support - Acceptance Testing Cost	-	-	0.716	-	-	0.300	-	-	0.284	-	-	0.208	-	-	-	-	-	0.208
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-	-	-	-2.279	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Government Furnished Materials Cost	-	-	-	-	-	-2.279	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Safety	-	-	1.336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	1.336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	284.346	-	-	2.297	-	-	2.770	-	-	2.840	-	-	-	-	-	2.840
Subtotal: Support - Production Engineering Cost	-	-	284.346	-	-	2.297	-	-	2.770	-	-	2.840	-	-	-	-	-	2.840
Gross/Weapon System Cost	-	-	357.179	-	-	35.157	-	-	31.650	-	-	26.206	-	-	-	-	-	26.206

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types					Item Number / Title [DODIC]: E18403 / CTG, 81mm Mortar HE, M821 Series w/MOFM [CA66]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2022	GENERAL DYNAMICS ORD & TAC SYS - CANADA / LE GARDEUR, CANADA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Aug 2022	Nov 2024	31,356	527.31	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2023	May 2026	29,937	416.51	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2024	May 2027	20,275	548.70	Y		
SHELL BODY, 81MM HE M821A4		2022	GENERAL DYNAMICS ORD & TAC SYS / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Jul 2022	Jun 2024	32,296	89.37	Y		
SHELL BODY, 81MM HE M821A4		2023	GENERAL DYNAMICS ORD & TAC SYS / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	30,834	89.94	Y		
SHELL BODY, 81MM HE M821A4		2024	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	20,883	92.65	Y		
FIN MORTAR CTG M24 F/81MM		2022	GENERAL DYNAMICS ORD & TAC SYS / MARION, IL	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2022	Apr 2023	32,296	19.21	Y		
FIN MORTAR CTG M24 F/81MM		2023	PRECISION IMPACTS, LLC. / MIAMISBURG, OH	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Dec 2022	Jun 2024	30,834	18.14	Y		
FIN MORTAR CTG M24 F/81MM		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	20,883	20.65	Y		
IGN CTG M299		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jan 2022	Feb 2023	32,296	17.51	Y		
IGN CTG M299		2023	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	30,834	16.61	Y		
IGN CTG M299		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	20,883	18.53	Y		
PROPELLANT CHARGE, M658		2022	GENERAL DYNAMICS ORD & TAC SYS / MARION, IL	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2022	Feb 2023	89,874	14.70	Y		
PROPELLANT CHARGE, M658		2022	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / IDIQ	PICATINNY ARSENAL, NJ	Aug 2022	Jul 2023	39,313	21.55	Y		
PROPELLANT CHARGE, M658		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	123,340	14.74	Y		
PROPELLANT CHARGE, M658		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	83,533	18.49	Y		
FUZE MOFM, M734A1		2022	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Dec 2021	Nov 2023	32,296	260.26	Y		
FUZE MOFM, M734A1		2023	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Apr 2023	Oct 2025	30,834	259.23	Y		
FUZE MOFM, M734A1		2024	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2026	20,883	283.41	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33				P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types					Item Number / Title [DODIC]: E18403 / CTG, 81mm Mortar HE, M821 Series w/MOFM [CA66]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
PBXW-12 BULK EXPLOSIVE		2022	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2022	Nov 2022	3,763	85.79	Y		
PBXW-12 BULK EXPLOSIVE		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Feb 2025	3,592	114.33	Y		
PBXW-12 BULK EXPLOSIVE		2024	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2026	2,433	126.18	Y		
EXPLOSIVE FILL IMX-104		2022	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2022	Sep 2024	40,076	26.39	Y		
EXPLOSIVE FILL IMX-104		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2025	85,320	24.15	Y		
EXPLOSIVE FILL IMX-104		2024	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2026	57,784	26.13	Y		
*EXPLOSIVE FILL IMX-104		2022	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE,	GFM	PICATINNY ARSENAL, NJ	Sep 2022	Sep 2023	91,618	24.88	N		

(†) indicates the presence of a P-21

Remarks:

Ignition Cartridges: IDIQ awarded (FY 2018) to Nammo Pocal Industries, Scranton, PA. HE LAP: IDIQ awarded (FY 2017) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Parsons, KS; General Dynamics, Le Gardeur, Canada; American Ordnance, Middletown, IA. HE Shell Bodies: IDIQ awarded (FY 2018) to General Dynamics OTS, Wilkes Barre, PA. Fins: IDIQ awarded (FY 2017) to multiple contractors. Requirements will be competed among the following contractors: Gayston Corp., Springboro, OH, Flexible Concepts, Elkhart, IN. and Precision Impacts, LLC. New FY 2023 IDIQ component contracts to be competed.

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types										Item Number / Title [DODIC]: E18403 / CTG, 81mm Mortar HE, M821 Series w/MOFM [CA66]																										
Cost Elements (Units in Thousands)							Fiscal Year 2022													Fiscal Year 2023													B A L A N C E													
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023																										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																
LOAD, ASSEMBLE, PACK (LAP)																																														
Prior Years Deliveries: 80279																																														
	2	2022	ARMY	31.356	.000	31.356														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31.356										
	1	2023	ARMY	29.937	.000	29.937																											A -	-	-	-	-	-	-	-	-	-	-	-	29.937	
	1	2023	MC ^(†)	.995	.000	.995																											A -	-	-	-	-	-	-	-	-	-	-	-	.995	
	1	2023	Total	30.932	.000	30.932																											-	-	-	-	-	-	-	-	-	-	-	-	30.932	
	1	2024	ARMY	20.275	.000	20.275																																								20.275
	1	2024	MC ^(†)	.784	.000	.784																																								.784
	1	2024	Total	21.059	.000	21.059																																								21.059
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33							P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types													Item Number / Title [DODIC]: E18403 / CTG, 81mm Mortar HE, M821 Series w/MOFM [CA66]															
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2024													Fiscal Year 2025													B A L A N C E		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
LOAD, ASSEMBLE, PACK (LAP)																																			
Prior Years Deliveries: 80279																																			
	2	2022	ARMY	31.356	.000	31.356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.000	19.356													.000
	1	2023	ARMY	29.937	.000	29.937	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.937			
	1	2023	MC ^(†)	.995	.000	.995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.995			
	1	2023	Total	30.932	.000	30.932	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.932			
	1	2024	ARMY	20.275	.000	20.275								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.275			
	1	2024	MC ^(†)	.784	.000	.784								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.784		
	1	2024	Total	21.059	.000	21.059								-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.059		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33							P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types													Item Number / Title [DODIC]: E18403 / CTG, 81mm Mortar HE, M821 Series w/MOFM [CA66]														
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2026													Fiscal Year 2027													B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 5	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
LOAD, ASSEMBLE, PACK (LAP)																																		
Prior Years Deliveries: 80279																																		
	2	2022	ARMY	31.356	31.356	.000																												.000
	1	2023	ARMY	29.937	.000	29.937	-	-	-	-	-	-	-	11.049	12.000	6.888																		.000
	1	2023	MC ^(†)	.995	.000	.995	-	-	-	-	-	-	-	.995	-	-																		.000
	1	2023	Total	30.932	.000	30.932	-	-	-	-	-	-	-	12.044	12.000	6.888	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
	1	2024	ARMY	20.275	.000	20.275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.216	9.059			.000			
	1	2024	MC ^(†)	.784	.000	.784	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.784	-			.000			
	1	2024	Total	21.059	.000	21.059	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.000	9.059	-	-	-	.000			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33					P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types				Item Number / Title [DODIC]: E18403 / CTG, 81mm Mortar HE, M821 Series w/MOFM [CA66]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	4,000	12,000	30,000	8	8	36	44	8	8	36	44
2	GENERAL DYNAMICS ORD & TAC SYS - CANADA - LE GARDEUR, CANADA	4,000	12,000	30,000	8	8	36	44	8	8	36	44

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types						Item Number / Title [DODIC]: E18404 / CTG, 81mm Mortar HE, M889 Series w/PD Fuze [CA63]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				175.922		-		9.903		-		-		-				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				175.922		-		9.903		-		-		-				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				175.922		-		9.903		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	84.20	107,392	9.042	-	-	-	201.17	13,854	2.787	-	-	-	-	-	-	-	-	-
FUZE POINT DETONATOR M783 ^(†)	184.69	110,613	20.430	-	-	-	198.98	14,270	2.839	-	-	-	-	-	-	-	-	-
SHELL BODY, 81MM HE ^(†)	51.01	110,613	5.643	-	-	-	54.46	14,270	0.777	-	-	-	-	-	-	-	-	-
IGN CTG M299 ^(†)	14.99	110,613	1.658	-	-	-	18.16	14,270	0.259	-	-	-	-	-	-	-	-	-
CHG PROP 81MM M220 ^(†)	11.93	442,454	5.278	-	-	-	15.30	57,078	0.873	-	-	-	-	-	-	-	-	-
FIN MORTAR CTG M24 F/81MM ^(†)	16.42	110,613	1.816	-	-	-	20.25	14,270	0.289	-	-	-	-	-	-	-	-	-
PBXW-12 BULK EXPLOSIVE ^(†)	95.31	6,061	0.578	-	-	-	123.71	1,662	0.206	-	-	-	-	-	-	-	-	-
EXPLOSIVE FILL IMX-104 ^(†)	22.05	424,033	9.351	-	-	-	25.61	39,484	1.011	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	53.795	-	-	-	-	-	9.042	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	53.795	-	-	-	-	-	9.042	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.345	-	-	-	-	-	0.114	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33					P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types					Item Number / Title [DODIC]: E18404 / CTG, 81mm Mortar HE, M889 Series w/PD Fuze [CA63]									
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Acceptance Testing Cost	-	-	0.345	-	-	-	-	-	0.114	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	121.782	-	-	-	-	-	0.747	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	121.782	-	-	-	-	-	0.747	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	175.922	-	-	-	-	-	9.903	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types						Item Number / Title [DODIC]: E18404 / CTG, 81mm Mortar HE, M889 Series w/PD Fuze [CA63]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2023	May 2026	13,854	201.17	Y		
FUZE POINT DETONATOR M783		2023	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Apr 2023	Oct 2025	14,270	198.98	Y		
SHELL BODY, 81MM HE		2023	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Sep 2024	14,270	54.46	Y		
IGN CTG M299		2023	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	14,270	18.16	Y		
CHG PROP 81MM M220		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	57,078	15.30	Y		
FIN MORTAR CTG M24 F/81MM		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	14,270	20.25	Y		
PBXW-12 BULK EXPLOSIVE		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2025	1,662	123.71	Y		
EXPLOSIVE FILL IMX-104		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2025	39,484	25.61	Y		
Remarks: Ignition Cartridges: IDIQ awarded (FY 2018) to Nammo Pocal Industries, Scranton, PA. HE LAP: IDIQ awarded (FY 2017) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Parsons, KS; General Dynamics, Le Gardeur, Canada; American Ordnance, Middletown, IA. HE Shell Bodes: IDIQ awarded (FY 2018) to General Dynamics OTS, Wilkes Barre, PA. M220 Propellant Charges: IDIQ awarded (FY 2018) to multiple contractors. Requirements will be competed among the following contractors: American Ordnance, Middletown, IA; and General Dynamics, Marion IL. Fins: IDIQ awarded (FY 2017) to multiple contractors. Requirements will be competed among the following contractors: Gayston Corp., Springboro, OH and Flexible Concepts, Elkhart, IN. New FY 2023 IDIQ component contracts to be competed.												

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types						Item Number / Title [DODIC]: E69600 / CTG, 81mm FRTR, M879 Series w/Practice Fuze [C875]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				218.563		8.598		9.207		14.356		-		14.356				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				218.563		8.598		9.207		14.356		-		14.356				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				218.563		8.598		9.207		14.356		-		14.356				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	41.70	315,113	13.140	45.16	35,866	1.620	47.41	37,088	1.758	48.35	53,660	2.594	-	-	-	48.35	53,660	2.594
FUZE PRACTICE, M751 ^(†)	20.30	324,567	6.588	22.15	36,942	0.818	21.94	38,199	0.838	23.24	55,065	1.280	-	-	-	23.24	55,065	1.280
SHELL BODY, 81MM FRPC ^(†)	44.24	324,567	14.359	45.79	36,942	1.692	47.01	38,199	1.796	47.96	55,065	2.641	-	-	-	47.96	55,065	2.641
IGN CTG M299 ^(†)	15.14	324,567	4.913	17.05	36,942	0.630	16.61	38,199	0.634	18.53	55,065	1.020	-	-	-	18.53	55,065	1.020
CHG PROP 81MM M220 ^(†)	12.60	1,298,266	16.356	13.97	147,768	2.064	15.04	152,799	2.298	16.83	220,261	3.707	-	-	-	16.83	220,261	3.707
FIN MORTAR CTG M24 F/81MM ^(†)	15.49	324,567	5.028	15.10	36,942	0.558	18.14	38,199	0.693	20.65	55,065	1.137	-	-	-	20.65	55,065	1.137
Subtotal: Recurring Cost	-	-	60.384	-	-	7.382	-	-	8.018	-	-	12.380	-	-	-	-	-	12.380
Subtotal: Hardware Cost	-	-	60.384	-	-	7.382	-	-	8.018	-	-	12.380	-	-	-	-	-	12.380
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	2.382	-	-	0.085	-	-	0.302	-	-	0.367	-	-	-	-	-	0.367
Subtotal: Support - Acceptance Testing Cost	-	-	2.382	-	-	0.085	-	-	0.302	-	-	0.367	-	-	-	-	-	0.367
Support - Production Engineering Cost																		
Production Engineering	-	-	155.797	-	-	1.131	-	-	0.888	-	-	1.610	-	-	-	-	-	1.610

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types						Item Number / Title [DODIC]: E69600 / CTG, 81mm FRTR, M879 Series w/Practice Fuze [C875]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
	Subtotal: Support - Production Engineering Cost	-	-	155.797	-	-	1.131	-	-	0.888	-	-	1.610	-	-	-	-	-
Gross/Weapon System Cost	-	-	218.563	-	-	8.598	-	-	9.207	-	-	14.356	-	-	-	-	-	14.356

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types						Item Number / Title [DODIC]: E69600 / CTG, 81mm FRTR, M879 Series w/Practice Fuze [C875]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	DAY & ZIMMERMAN (KSAAP) / PARSONS, KS	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jul 2022	Jun 2024	35,866	45.16	Y		
LOAD, ASSEMBLE, PACK (LAP)		2023	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	May 2023	Nov 2026	37,088	47.41	Y		
LOAD, ASSEMBLE, PACK (LAP)		2024	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	May 2024	May 2026	53,660	48.35	Y		
FUZE PRACTICE, M751		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Dec 2021	Jun 2023	36,942	22.15	Y		
FUZE PRACTICE, M751		2023	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	38,199	21.94	Y		
FUZE PRACTICE, M751		2024	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	55,065	23.24	Y		
SHELL BODY, 81MM FRPC		2022	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Jul 2022	Feb 2024	36,942	45.79	Y		
SHELL BODY, 81MM FRPC		2023	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	38,199	47.01	Y		
SHELL BODY, 81MM FRPC		2024	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	55,065	47.96	Y		
IGN CTG M299		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jan 2022	Jul 2023	36,942	17.05	Y		
IGN CTG M299		2023	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	38,199	16.61	Y		
IGN CTG M299		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	55,065	18.53	Y		
CHG PROP 81MM M220		2022	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2022	Sep 2023	147,768	13.97	Y		
CHG PROP 81MM M220		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	152,799	15.04	Y		
CHG PROP 81MM M220		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	220,261	16.83	Y		
FIN MORTAR CTG M24 F/81MM		2022	GAYSTON CORPORATION / MIAMISBURG, OH	Option / IDIQ	PICATINNY ARSENAL, NJ	Apr 2022	Jun 2023	36,942	15.10	Y		
FIN MORTAR CTG M24 F/81MM		2023	PRECISION IMPACTS, LLC. / MIAMISBURG, OH	Option / IDIQ	PICATINNY ARSENAL, NJ	Dec 2022	Aug 2024	38,199	18.14	Y		
FIN MORTAR CTG M24 F/81MM		2024	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ.	Mar 2024	Sep 2025	55,065	20.65	Y		
Remarks:												

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types	Item Number / Title [DODIC]: E69600 / CTG, 81mm FRTR, M879 Series w/Practice Fuze [C875]
FRPC Shell Bodes: IDIQ awarded (FY 2018) to General Dynamics, OTS, Wilkes Barre, PA. Ignition Cartridges: IDIQ awarded (FY 2018) to Nammo Pocal Industries, Scranton, PA. M220 Propellant Charges: IDIQ awarded (FY 2018) to multiple contractors. Requirements will be competed among the following contractors: American Ordnance, Middletown, IA. and General Dynamics, Marion, IL. Fins: IDIQ awarded (FY 2017) to multiple contractors. Requirements will be competed among the following contractors: Gayston Corp., Springboro, OH., Flexible Concepts, Elkhart, IN. and Precision Impacts, LLC. New FY 2023 IDIQ component contracts to be competed.		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types						Item Number / Title [DODIC]: E76100 / CTG, 81mm Mortar VL ILLUM, M853 Series w/MTSQ Fuze [C871]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				96.052		10.288		-		-		-		-					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				96.052		10.288		-		-		-		-					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				96.052		10.288		-		-		-		-					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Hardware Cost																			
Recurring Cost																			
LOAD, ASSEMBLE, PACK (LAP) ^(†)	285.18	84,356	24.057	280.48	8,940	2.507	-	-	-	-	-	-	-	-	-	-	-	-	
FUZE MTSQ, M772 ^(†)	285.18	86,887	24.778	242.85	9,208	2.236	-	-	-	-	-	-	-	-	-	-	-	-	
BODY TUBE, 81MM ILLUM ^(†)	42.55	86,887	3.697	44.76	9,208	0.412	-	-	-	-	-	-	-	-	-	-	-	-	
TAIL CONE, 81MM ILLUM ^(†)	20.79	86,887	1.806	21.88	9,208	0.201	-	-	-	-	-	-	-	-	-	-	-	-	
IGN CTG M752 ^(†)	25.36	86,887	2.203	23.35	9,208	0.215	-	-	-	-	-	-	-	-	-	-	-	-	
CHG PROP 81MM M219 ^(†)	13.26	347,547	4.608	13.95	36,833	0.514	-	-	-	-	-	-	-	-	-	-	-	-	
FIN MORTAR CTG M28 F/81MM M819 RP ^(†)	17.49	86,887	1.520	18.40	9,208	0.169	-	-	-	-	-	-	-	-	-	-	-	-	
ILLUM CANDLE VL F/81MM M853A1 ^(†)	237.65	86,887	20.649	214.44	9,208	1.975	-	-	-	-	-	-	-	-	-	-	-	-	
PARACHUTE, 81MM ^(†)	29.94	86,877	2.601	31.49	9,208	0.290	-	-	-	-	-	-	-	-	-	-	-	-	
FIBER CONTAINER PA 162, 81MM ^(†)	6.17	86,887	0.536	6.49	9,208	0.060	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33					P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types					Item Number / Title [DODIC]: E76100 / CTG, 81mm Mortar VL ILLUM, M853 Series w/MTSQ Fuze [C871]									
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
METAL CONTAINER PA 157, 81MM ^(†)	64.72	29,525	1.911	68.08	3,039	0.207	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	88.367	-	-	8.787	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	88.367	-	-	8.787	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.962	-	-	0.280	-	-	-	-	-	-	-	-	-	-	-	-
First Article Test	-	-	-	-	-	0.296	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.962	-	-	0.576	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	6.724	-	-	0.925	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	6.724	-	-	0.925	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	96.052	-	-	10.288	-	-	-	-	-	-	-	-	-	-	-	-

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33				P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types				Item Number / Title [DODIC]: E76100 / CTG, 81mm Mortar VL ILLUM, M853 Series w/MTSQ Fuze [C871]			

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	May 2022	Oct 2024	8,940	280.48	Y		
FUZE MTSQ, M772		2022	JUNGHANS MICROTEC GMBH / DUNNINGEN, GERMANY	SS / FFP	ROCK ISLAND ARSENAL, IL	Jun 2022	Dec 2023	9,208	242.85	Y		
BODY TUBE, 81MM ILLUM		2022	LEWIS ENGINEERING COMPANY / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	May 2022	Nov 2023	9,208	44.76	Y		
TAIL CONE, 81MM ILLUM		2022	LEWIS ENGINEERING COMPANY / MARSHALL, TX	C / IDIQ	PICATINNY ARSENAL, NJ	May 2022	Nov 2023	9,208	21.88	Y		
IGN CTG M752		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2022	Dec 2023	9,208	23.35	Y		
CHG PROP 81MM M219		2022	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	36,833	13.95	Y		
FIN MORTAR CTG M28 F/81MM M819 RP		2022	PRECISION IMPACTS, LLC. / MIAMISBURG, OH.	Option / IDIQ	PICATINNY ARSENAL, NJ	Dec 2022	Jun 2024	9,208	18.40	Y		
ILLUM CANDLE VL F/81MM M853A1		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Apr 2022	Dec 2023	9,208	214.44	Y		
PARACHUTE, 81MM		2022	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	9,208	31.49	Y		
FIBER CONTAINER PA 162, 81MM		2022	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Sep 2024	9,208	6.49	Y		
METAL CONTAINER PA 157, 81MM		2022	BWAY CORPORATION / ATLANTA, GA	C / IDIQ	PICATINNY ARSENAL, NJ	Jun 2022	Dec 2023	3,039	68.08	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types						Item Number / Title [DODIC]: E90000 / CTG, 81mm Mortar IR ILLUM, M816 Series w/MTSQ Fuze						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				57.810		-		3.656		-		-		-				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				57.810		-		3.656		-		-		-				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				57.810		-		3.656		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	268.86	55,841	15.013	-	-	-	290.09	3,076	0.892	-	-	-	-	-	-	-	-	-
BODY TUBE, 81MM ILLUM ^(†)	42.32	57,516	2.434	-	-	-	45.66	3,168	0.145	-	-	-	-	-	-	-	-	-
TAIL CONE, 81MM ILLUM ^(†)	20.67	57,516	1.189	-	-	-	22.31	3,168	0.071	-	-	-	-	-	-	-	-	-
FIN MORTAR CTG M28 F/81MM M819 RP ^(†)	17.36	57,516	0.998	-	-	-	18.74	3,168	0.059	-	-	-	-	-	-	-	-	-
CHG PROP 81MM M219 ^(†)	13.94	230,065	3.207	-	-	-	15.04	12,673	0.191	-	-	-	-	-	-	-	-	-
IGN CTG M752 ^(†)	21.43	57,516	1.233	-	-	-	23.12	3,168	0.073	-	-	-	-	-	-	-	-	-
FUZE MTSQ, M772 ^(†)	220.06	57,516	12.657	-	-	-	237.44	3,168	0.752	-	-	-	-	-	-	-	-	-
IR ILLUM CANNISTER, 81MM ^(†)	199.99	57,516	11.503	-	-	-	215.79	3,168	0.684	-	-	-	-	-	-	-	-	-
PARACHUTE, 81MM ^(†)	60.74	57,516	3.494	-	-	-	65.54	3,168	0.208	-	-	-	-	-	-	-	-	-
METAL CONTAINER PA 157, 81MM ^(†)	56.42	19,544	1.103	-	-	-	60.88	1,076	0.066	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types						Item Number / Title [DODIC]: E90000 / CTG, 81mm Mortar IR ILLUM, M816 Series w/MTSQ Fuze						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
FIBER CONTAINER PA 162, 81MM ^(†)	6.17	57,516	0.355	-	-	-	6.61	3,168	0.021	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	53.185	-	-	-	-	-	3.161	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	53.185	-	-	-	-	-	3.161	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.578	-	-	-	-	-	0.165	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.578	-	-	-	-	-	0.165	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	4.047	-	-	-	-	-	0.330	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	4.047	-	-	-	-	-	0.330	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	57.810	-	-	-	-	-	3.656	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: 3584E76000 / 81MM Mortar, All Types					Item Number / Title [DODIC]: E90000 / CTG, 81mm Mortar IR ILLUM, M816 Series w/MTSQ Fuze				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2023	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Feb 2023	Feb 2025	3,076	290.09	Y		
BODY TUBE, 81MM ILLUM		2023	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Oct 2023	Apr 2024	3,168	45.66	Y		
TAIL CONE, 81MM ILLUM		2023	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Oct 2023	Apr 2024	3,168	22.31	Y		
FIN MORTAR CTG M28 F/81MM M819 RP		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2023	Dec 2024	3,168	18.74	Y		
CHG PROP 81MM M219		2023	TO BE SELECTED / TBS01	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	12,673	15.04	Y		
IGN CTG M752		2023	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	3,168	23.12	Y		
FUZE MTSQ, M772		2023	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Aug 2023	Feb 2025	3,168	237.44	Y		
IR ILLUM CANNISTER, 81MM		2023	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2023	Oct 2024	3,168	215.79	Y		
PARACHUTE, 81MM		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2023	Oct 2024	3,168	65.54	Y		
METAL CONTAINER PA 157, 81MM		2023	BWAY CORPORATION / ATLANTA, GA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Sep 2024	1,076	60.88	Y		
FIBER CONTAINER PA 162, 81MM		2023	UNITED AMMUNITION CONTAINER / WYNNEWOOD, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Sep 2024	3,168	6.61	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition							P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A					Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,379.036	90.801	117.101	106.784	-	106.784	128.951	143.548	135.879	128.587	-	3,230.687
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,379.036	90.801	117.101	106.784	-	106.784	128.951	143.548	135.879	128.587	-	3,230.687
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,379.036	90.801	117.101	106.784	-	106.784	128.951	143.548	135.879	128.587	-	3,230.687
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description:</p> <p>This budget line item includes 120MM Mortars, All Types.</p> <p>The 120mm Mortar Cartridges are designed for use with the M120, 120mm Towed Mortar System and the M121 Carrier Mortar System as well as use with the Brigade Combat Team Mortar System.</p> <p>(E25502) CTG, MORTAR, 120MM HE M933 SERIES W/PD FUZE The M933A1 120mm High Explosive (HE) cartridge with the M783 Point Detonating/ Delay (PD/DLY) Fuze is used against personnel, bunker and light materiel targets. It consists of a Steel Shell Body with Composition B fill, and aluminum M31 Fin Assembly. The propulsion system utilizes the M1020 Ignition Cartridge and four horseshoe-shaped, water- resistant M234 Propelling Charges. The M933A1 HE (range 200 meter minimum to 7,200 meter maximum) is used with the new M783 dual safety, point detonating/delay fuze. This round is used primarily in training because it is significantly less expensive than the M934A1, the preferred war fighting round. However, the M933A1 is lethal and can be used in combat. This item is Code A, approved for service use.</p> <p>(E25503) CTG, MORTAR, 120MM VL ILLUM M930 SERIES W/ MTSQ FUZE The M930 cartridge is a fin stabilized mortar cartridge that consists of a M776 Mechanical Time Super Quick (MTSQ) fuze, a steel 2-piece shell body that contains the parachute and canister, and a fin assembly. The payload is base ejected and upon ignition produces Visible Light (VL) illumination. This VL illumination allows for monitoring of enemy activities and adjustment of fire at greater observation instances during night operations. It also provides a means for day/night signaling. The M930 VL (range 400 meter minimum to 6,900 meter maximum) illuminates to the full range of the M934A1 high explosive round, which allows adjustment of fire at any distance out to the maximum range, and provides a significant increase in illumination intensity and effectiveness over the 4.2-inch cartridge that it replaces. This item is Code A, approved for service use.</p> <p>(E25507) CTG, MORTAR, 120MM FRTR M931 SERIES W/PRACT FUZE The M931 is a low-cost, full range, training round (FRTR) that will replace a percentage of the standard HE cartridges used in 120mm mortar training. The M931 Full Range Practice Round (FRPR) (range 200 meter minimum to 7,200 meter maximum) has been designed to provide the user with realistic training for 120mm Mortar crews at a fraction of the cost. It is identical in shape, size and weight to the M933A1/ M934A1 HE cartridges. The M931 is equipped with M781 PD Practice Fuze. The M781 PD Practice Fuze produces a flash, bang, and smoke signature that provides audio/visual feedback to the mortar crew and forward observer. This item is Code A, approved for service use.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition		P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types	
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A		Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			
<p>(E91300) CTG, MORTAR, 120MM WP SMOKE M929 SERIES W/MOFM</p> <p>The M929 White Phosphorous (WP) Smoke Cartridge is used to provide smoke, with some incendiary effect for various screening missions. The cartridge is filled with five pounds of WP. The M929 uses the highly reliable and robust electronic countermeasure resistant M734A1 multi-option fuze when functions, detonates the burster, which disperses the felt pads which are soaked with WP over the target. The smoke obscuration is generated by a spontaneous reaction between the WP and oxygen. The M929 (range 200 meter minimum and 7,200 maximum) is range-matched to the 120mm HE and Illumination cartridges.</p> <p>This item is Code A, approved for service use.</p>			
<p>(E91400) CTG, MORTAR, 120MM HE M934 SERIES W/MOFM FUZE</p> <p>The M934A1 120mm HE cartridge with the M734A1 multi-option fuze is used against personnel, bunker and light materiel targets. It consists of a Steel Shell Body with Composition B fill, and aluminum M31 Fin Assembly. The propulsion system utilizes the M1020 Ignition Cartridge and four horseshoe-shaped, water-resistant M234 Propelling Charges. The M934A1 HE (range 200 meter minimum to 7,200 meter maximum) uses the highly reliable and countermeasure resistant M734A1 multi-option fuze. The proximity setting will burst the cartridge at a height over the target that is optimized for lethality. This item is Code A, approved for service use.</p>			
<p>(E91500) CTG, MORTAR, 120MM IR ILLUM M983 SERIES W/ MTSQ FUZE</p> <p>The M983 120mm Infra-Red (IR) Illumination cartridge is ballistically similar to the M930 Visible Light Illumination cartridge except for the chemical composition of the illuminating material and provides a field of view equal or greater to that of the M930 VL cartridge. The M983 cartridge is a fin stabilized, mortar cartridge that consists of the M776 Mechanical Time Super Quick (MTSQ) fuze, a steel 2 piece shell body, and a fin assembly. The payload is base ejected. The advantage is that there is minimal visible light. This reduces the possibility of exposing forward friendly troop positions while also allowing covert adjustment of fire at greater observation distances through the use of passive Night Vision Devices (NVDs). The M983 IR (range 375 meters minimum to 6,675 meters maximum) illuminates to the full range of the M934A1 HE cartridge.</p> <p>The item is Code A, approved for service use.</p>			

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

P-1 Line Item Number / Title:
6780E25500 / 120MM Mortar, All Types

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E25502 / CTG, 120mm Mortar HE, M933 Series w/PD Fuze [CA44]	P-5a	A		- / 505.022	- / 18.876	- / 22.945	- / 1.108	- / -	- / 1.108
P-5	E25503 / CTG, 120mm Mortar VL ILLM, M930 Series w/MTSQ Fuze [C625]	P-5a, P-21	A		- / 444.434	- / 10.305	- / -	- / 18.533	- / -	- / 18.533
P-5	E25507 / CTG, 120mm Mortar FRTR, M931 Series w/Pract Fuze [CA09]	P-5a, P-21	A		- / 719.597	- / 28.440	- / 34.857	- / 50.883	- / -	- / 50.883
P-5	E91300 / CTG, 120mm Mortar WP Smoke, M929 Series w/MOFM [CA03]	P-5a	A		- / 304.428	- / 18.792	- / 19.871	- / 16.126	- / -	- / 16.126
P-5	E91400 / CTG, 120mm Mortar HE, M934 Series w/MOFM [CA04]	P-5a, P-21	A		- / 186.279	- / 14.388	- / 15.245	- / 20.134	- / -	- / 20.134
P-5	E91500 / CTG, 120mm Mortar IR ILLUM, M983 Series w/MTSQ [CA07]	P-5a	A		- / 219.276	- / -	- / 24.183	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 2,379.036	- / 90.801	- / 117.101	- / 106.784	- / -	- / 106.784

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2024 Total Base dollars in the amount of \$106.784 million supports the procurement of 142,485 cartridges.

(E25502) CTG, MORTAR, 120MM HE M933 SERIES W/PD FUZE
This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$1.108 million supports engineering for items in production.
TYPE CLASSIFICATION DATE: 2009

(E25503) CTG, MORTAR, 120MM VL ILLUM M930 SERIES W/MTSQ FUZE
This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$18.533 million supports production of 10,523 cartridges.
TYPE CLASSIFICATION DATE: 2003

(E25507) CTG, MORTAR, 120MM FRTR M931 SERIES W/PRACT FUZE
This is a training unique item not used in combat. FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition		P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types	
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A		Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			
FY 2024 Total Base dollars in the amount of \$50.883 million supports the procurement of 106,695 rounds. TYPE CLASSIFICATION DATE: 1996 (E91300) CTG, MORTAR, 120MM WP SMOKE M929 SERIES W/MOFM This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$16.126 million supports the procurement of 10,095 cartridges. TYPE CLASSIFICATION DATE: 1996 (E91400) CTG, MORTAR, 120MM HE M934 SERIES W/MOFM FUZE This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$20.134 million supports production of 15,172 cartridges. TYPE CLASSIFICATION DATE: 2009 (E91500) CTG, MORTAR, 120MM IR ILLUM M983 SERIES W/MTSQ FUZE This is a training standard item used in training and combat. There is no FY 2024 budget request for this item. TYPE CLASSIFICATION DATE: 2000			

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types						Item Number / Title [DODIC]: E25502 / CTG, 120mm Mortar HE, M933 Series w/PD Fuze [CA44]						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				505.022		18.876		22.945		1.108		-		1.108				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				505.022		18.876		22.945		1.108		-		1.108				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				505.022		18.876		22.945		1.108		-		1.108				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	331.70	83,897	27.828	153.57	23,258	3.572	381.66	18,682	7.130	-	-	-	-	-	-	-	-	-
FIN ASSEMBLY, M31 ^(†)	102.36	86,414	8.846	40.85	23,956	0.979	41.66	19,242	0.802	-	-	-	-	-	-	-	-	-
IGNITION CARTRIDGE, M1020 ^(†)	23.15	208,113	4.818	24.86	23,956	0.596	25.26	19,242	0.486	-	-	-	-	-	-	-	-	-
PROPELLANT CHARGE, M234A1 ^(†)	47.18	345,656	16.308	22.36	95,823	2.143	25.50	76,970	1.963	-	-	-	-	-	-	-	-	-
SHELL BODY, 120MM HE ^(†)	264.39	86,414	22.847	143.81	23,956	3.445	146.71	19,242	2.823	-	-	-	-	-	-	-	-	-
FUZE POINT DETONATOR M783 ^(†)	556.23	57,850	32.178	186.12	23,956	4.459	198.98	19,242	3.829	-	-	-	-	-	-	-	-	-
COMP B TYPE I GRADE A ^(†)	11.87	739,503	8.778	-	-	-	13.07	168,138	2.198	-	-	-	-	-	-	-	-	-
*COMP B TYPE I GRADE A ^(†)	12.72	1,078,956	13.721	14.07	209,322	2.945	-	-	-	-	-	-	-	-	-	-	-	-
PBXW-12 BULK EXPLOSIVE ^(†)	109.89	3,051	0.335	70.27	2,558	0.180	123.71	2,055	0.254	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	135.659	-	-	18.317	-	-	19.484	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types						Item Number / Title [DODIC]: E25502 / CTG, 120mm Mortar HE, M933 Series w/PD Fuze [CA44]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Hardware Cost	-	-	135.659	-	-	18.317	-	-	19.484	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	1.132	-	-	0.240	-	-	0.240	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	1.132	-	-	0.240	-	-	0.240	-	-	-	-	-	-	-	-	-
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-18.591	-	-	-2.945	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Government Furnished Materials Cost	-	-	-18.591	-	-	-2.945	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Reliability	-	-	-	-	-	1.601	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	1.601	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	386.821	-	-	1.663	-	-	3.221	-	-	1.108	-	-	-	-	-	1.108
Subtotal: Support - Production Engineering Cost	-	-	386.821	-	-	1.663	-	-	3.221	-	-	1.108	-	-	-	-	-	1.108
Gross/Weapon System Cost	-	-	505.022	-	-	18.876	-	-	22.945	-	-	1.108	-	-	-	-	-	1.108

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types					Item Number / Title [DODIC]: E25502 / CTG, 120mm Mortar HE, M933 Series w/PD Fuze [CA44]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	GEN DYNAMICS ORD & TAC SYS - / LE GARDEUR, CANADA	Option / IDIQ	PICATINNY ARSENAL, NJ	Dec 2021	Apr 2025	23,258	153.57	Y		
LOAD, ASSEMBLE, PACK (LAP)		2023	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	May 2023	May 2026	18,682	381.66	Y		
FIN ASSEMBLY, M31		2022	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Dec 2021	Feb 2024	23,956	40.85	Y		
FIN ASSEMBLY, M31		2023	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	19,242	41.66	Y		
IGNITION CARTRIDGE, M1020		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2022	Dec 2022	23,956	24.86	Y		
IGNITION CARTRIDGE, M1020		2023	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	19,242	25.26	Y		
PROPELLANT CHARGE, M234A1		2022	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2022	Feb 2023	95,823	22.36	Y		
PROPELLANT CHARGE, M234A1		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	76,970	25.50	Y		
SHELL BODY, 120MM HE		2022	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2022	Jul 2024	23,956	143.81	Y		
SHELL BODY, 120MM HE		2023	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	19,242	146.71	Y		
FUZE POINT DETONATOR M783		2022	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Dec 2021	Oct 2023	23,956	186.12	Y		
FUZE POINT DETONATOR M783		2023	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Apr 2023	Oct 2025	19,242	198.98	Y		
COMP B TYPE I GRADE A		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Feb 2024	168,138	13.07	Y		
*COMP B TYPE I GRADE A		2022	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE,	GFM	PICATINNY ARSENAL, NJ	Sep 2022	Sep 2023	209,322	14.07	N		
PBXW-12 BULK EXPLOSIVE		2022	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2022	Mar 2023	2,558	70.27	Y		
PBXW-12 BULK EXPLOSIVE		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2025	2,055	123.71	Y		
Remarks: Propellant Charges: IDIQ awarded (FY 2018) to multiple contractors. Requirements will be competed among the following contractors: American Ordnance, Middletown, IA. and General Dynamics, Marion, IL. Ignition Cartridges: IDIQ awarded (FY2018) to Nammo Pocal INC., Scranton, PA. Shell Bodies: IDIQ awarded (FY 2018) to General Dynamics OTS, Wilkes Barre, PA. New FY 2023 IDIQ component contracts to be competed.												

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types						Item Number / Title [DODIC]: E25503 / CTG, 120mm Mortar VL ILLM, M930 Series w/MTSQ Fuze [C625]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				444.434		10.305		-		18.533		-		18.533				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				444.434		10.305		-		18.533		-		18.533				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				444.434		10.305		-		18.533		-		18.533				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	401.88	152,177	61.157	409.92	6,500	2.664	-	-	-	495.52	10,523	5.214	-	-	-	495.52	10,523	5.214
IGNITION CARTRIDGE, M1020 ^(†)	24.63	53,262	1.312	27.72	6,695	0.186	-	-	-	25.76	10,838	0.279	-	-	-	25.76	10,838	0.279
PROPELLANT CHARGE, M234A1 ^(†)	21.68	156,742	3.398	22.11	26,780	0.592	-	-	-	26.01	43,354	1.128	-	-	-	26.01	43,354	1.128
VL ILLUM CANNISTER, 120MM ^(†)	297.40	156,742	46.615	303.36	6,695	2.031	-	-	-	364.00	10,838	3.945	-	-	-	364.00	10,838	3.945
FIN ASSEMBLY, M31 ^(†)	40.84	156,742	6.402	41.67	6,695	0.279	-	-	-	42.50	10,838	0.461	-	-	-	42.50	10,838	0.461
METAL CONTAINER PA 154, 120MM ^(†)	72.79	156,742	11.410	74.25	3,380	0.251	-	-	-	72.62	5,471	0.397	-	-	-	72.62	5,471	0.397
PARACHUTE, 120MM ^(†)	53.53	156,742	8.390	54.61	6,695	0.366	-	-	-	60.38	10,838	0.654	-	-	-	60.38	10,838	0.654
FIBER CONTAINER PA 167, 120MM ^(†)	13.62	156,742	2.135	13.89	6,695	0.093	-	-	-	14.45	10,838	0.157	-	-	-	14.45	10,838	0.157
120MM ILLUM BODY ^(†)	158.20	156,742	24.796	161.37	6,695	1.080	-	-	-	164.59	10,838	1.784	-	-	-	164.59	10,838	1.784

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types						Item Number / Title [DODIC]: E25503 / CTG, 120mm Mortar VL ILLM, M930 Series w/MTSQ Fuze [C625]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
FUZE MTSQ, M776 ^(†)	255.07	626,967	159.920	211.84	6,695	1.418	-	-	-	228.96	10,838	2.481	-	-	-	228.96	10,838	2.481
Subtotal: Recurring Cost	-	-	325.534	-	-	8.960	-	-	-	-	-	16.500	-	-	-	-	-	16.500
Subtotal: Hardware Cost	-	-	325.534	-	-	8.960	-	-	-	-	-	16.500	-	-	-	-	-	16.500
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	96.200	-	-	0.255	-	-	-	-	-	0.090	-	-	-	-	-	0.090
First Article Test	-	-	-	-	-	0.072	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	96.200	-	-	0.327	-	-	-	-	-	0.090	-	-	-	-	-	0.090
Support - Production Engineering Cost																		
Production Engineering	-	-	22.700	-	-	1.018	-	-	-	-	-	1.941	-	-	-	-	-	1.941
Subtotal: Support - Production Engineering Cost	-	-	22.700	-	-	1.018	-	-	-	-	-	1.941	-	-	-	-	-	1.941
Gross/Weapon System Cost	-	-	444.434	-	-	10.305	-	-	-	-	-	18.533	-	-	-	-	-	18.533

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types					Item Number / Title [DODIC]: E25503 / CTG, 120mm Mortar VL ILLM, M930 Series w/MTSQ Fuze [C625]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2022	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	May 2022	Nov 2024	6,500	409.92	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2024	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Feb 2024	Aug 2026	10,523	495.52	Y		
IGNITION CARTRIDGE, M1020		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2022	Dec 2023	6,695	27.72	Y		
IGNITION CARTRIDGE, M1020		2024	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	10,838	25.76	Y		
PROPELLANT CHARGE, M234A1		2022	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	26,780	22.11	Y		
PROPELLANT CHARGE, M234A1		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	43,354	26.01	Y		
VL ILLUM CANNISTER, 120MM		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Apr 2022	Nov 2023	6,695	303.36	Y		
VL ILLUM CANNISTER, 120MM		2024	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2024	Oct 2025	10,838	364.00	Y		
FIN ASSEMBLY, M31		2022	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Jun 2022	Dec 2023	6,695	41.67	Y		
FIN ASSEMBLY, M31		2024	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2024	Aug 2025	10,838	42.50	Y		
METAL CONTAINER PA 154, 120MM		2022	BWAY CORPORATION / ATLANTA, GA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2022	Dec 2023	3,380	74.25	Y		
METAL CONTAINER PA 154, 120MM		2024	BWAY CORPORATION / ATLANTA, GA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	5,471	72.62	Y		
PARACHUTE, 120MM		2022	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	6,695	54.61	Y		
PARACHUTE, 120MM		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	10,838	60.38	Y		
FIBER CONTAINER PA 167, 120MM		2022	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	6,695	13.89	Y		
FIBER CONTAINER PA 167, 120MM		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	10,838	14.45	Y		
120MM ILLUM BODY		2022	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Sep 2024	6,695	161.37	Y		
120MM ILLUM BODY		2024	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2024	Aug 2025	10,838	164.59	Y		
FUZE MTSQ, M776		2022	JUNGHANS MICROTEC GMBH / DUNNINGEN, GERMANY	SS / FFP	ROCK ISLAND ARSENAL, IL	Jun 2022	Feb 2024	6,695	211.84	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33				P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types				Item Number / Title [DODIC]: E25503 / CTG, 120mm Mortar VL ILLM, M930 Series w/MTSQ Fuze [C625]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
FUZE MTSQ, M776		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	10,838	228.96	Y		

(†) indicates the presence of a P-21

Remarks:
Propellant Charges: IDIQ awarded (FY 2018) to multiple contractors. Requirements will be competed among the following contractors: American Ordnance, Middletown, IA. and General Dynamics, Marion, IL. Ignition Cartridges: IDIQ awarded (FY2018) to Nammo Pocal INC., Scranton, PA. Shell Bodies: IDIQ awarded (FY 2018) to General Dynamics OTS, Wilkes Barre, PA. New FY 2023 IDIQ component contracts to be competed.

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33							P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types												Item Number / Title [DODIC]: E25503 / CTG, 120mm Mortar VL ILLM, M930 Series w/MTSQ Fuze [C625]																								
Cost Elements (Units in Thousands)							Fiscal Year 2022												Fiscal Year 2023												B A L A N C E												
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023																								
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P													
							LOAD, ASSEMBLE, PACK (LAP)																																				
Prior Years Deliveries: 152177																																											
	1	2022	ARMY	6.500	.000	6.500													A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.500						
	1	2024	ARMY	10.523	.000	10.523																																					10.523
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P													

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types										Item Number / Title [DODIC]: E25503 / CTG, 120mm Mortar VL ILLM, M930 Series w/MTSQ Fuze [C625]														
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2024													Fiscal Year 2025													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
LOAD, ASSEMBLE, PACK (LAP)																																		
Prior Years Deliveries: 152177																																		
	1	2022	ARMY	6.500	.000	6.500	-	-	-	-	-	-	-	-	-	-	-	-	-	6.500														.000
	1	2024	ARMY	10.523	.000	10.523						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.523		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types										Item Number / Title [DODIC]: E25503 / CTG, 120mm Mortar VL ILLM, M930 Series w/MTSQ Fuze [C625]													
Cost Elements (Units in Thousands)							Fiscal Year 2026													Fiscal Year 2027													B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LOAD, ASSEMBLE, PACK (LAP)																																	
Prior Years Deliveries: 152177																																	
	1	2022	ARMY	6.500	6.500	.000																											.000
	1	2024	ARMY	10.523	.000	10.523	-	-	-	-	-	-	-	-	-	-	10.523																.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33					P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types				Item Number / Title [DODIC]: E25503 / CTG, 120mm Mortar VL ILLM, M930 Series w/MTSQ Fuze [C625]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	PINE BLUFF ARSENAL - PINE BLUFF, AR	5,000	12,000	16,000	5	5	30	35	5	5	24	29

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types						Item Number / Title [DODIC]: E25507 / CTG, 120mm Mortar FRTR, M931 Series w/Pract Fuze [CA09]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				719.597		28.440		34.857		50.883		-		50.883				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				719.597		28.440		34.857		50.883		-		50.883				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				719.597		28.440		34.857		50.883		-		50.883				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	82.94	641,184	53.178	88.61	60,833	5.390	91.18	73,371	6.690	93.09	106,695	9.932	-	-	-	93.09	106,695	9.932
FIN ASSEMBLY, M31 ^(†)	42.25	660,419	27.902	40.85	62,658	2.560	42.49	75,572	3.211	42.50	109,895	4.671	-	-	-	42.50	109,895	4.671
IGNITION CARTRIDGE, M1020 ^(†)	23.13	660,419	15.276	24.86	62,658	1.558	25.01	75,572	1.890	25.76	109,895	2.831	-	-	-	25.76	109,895	2.831
PROPELLANT CHARGE, M234A1 ^(†)	36.99	1,450,022	53.632	22.36	250,632	5.604	25.49	302,288	7.705	26.01	439,583	11.434	-	-	-	26.01	439,583	11.434
SHELL BODY, 120MM FRPC ^(†)	205.46	362,505	74.479	136.87	62,658	8.576	135.79	75,572	10.262	139.12	109,895	15.289	-	-	-	139.12	109,895	15.289
FUZE PRACTICE, M781 ^(†)	37.69	362,505	13.664	22.15	62,658	1.388	23.41	75,572	1.769	22.79	109,895	2.505	-	-	-	22.79	109,895	2.505
Subtotal: Recurring Cost	-	-	238.130	-	-	25.076	-	-	31.527	-	-	46.660	-	-	-	-	-	46.660
Subtotal: Hardware Cost	-	-	238.130	-	-	25.076	-	-	31.527	-	-	46.660	-	-	-	-	-	46.660
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	2.500	-	-	0.490	-	-	0.524	-	-	0.770	-	-	-	-	-	0.770
Subtotal: Support - Acceptance Testing Cost	-	-	2.500	-	-	0.490	-	-	0.524	-	-	0.770	-	-	-	-	-	0.770
Support - Engineering Change Proposals Cost																		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types						Item Number / Title [DODIC]: E25507 / CTG, 120mm Mortar FRTR, M931 Series w/Pract Fuze [CA09]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Engineering Change Proposals	-	-	0.450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Engineering Change Proposals Cost	-	-	0.450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Reliability	-	-	-	-	-	0.262	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	0.262	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	478.517	-	-	2.613	-	-	2.805	-	-	3.452	-	-	-	-	-	3.452
Subtotal: Support - Production Engineering Cost	-	-	478.517	-	-	2.613	-	-	2.805	-	-	3.452	-	-	-	-	-	3.452
Gross/Weapon System Cost	-	-	719.597	-	-	28.440	-	-	34.857	-	-	50.883	-	-	-	-	-	50.883

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33				P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types					Item Number / Title [DODIC]: E25507 / CTG, 120mm Mortar FRTR, M931 Series w/Pract Fuze [CA09]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2022	GEN DYNAMICS ORD & TAC SYS - / LE GARDEUR, CANADA	Option / FFP	PICATINNY ARSENAL, NJ	Dec 2021	Apr 2025	60,833	88.61	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2023	GEN DYNAMICS ORD & TAC SYS - / LE GARDEUR, CANADA	Option / FFP	PICATINNY ARSENAL, NJ	May 2023	May 2026	73,371	91.18	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2024	GEN DYNAMICS ORD & TAC SYS - / LE GARDEUR, CANADA	Option / FFP	PICATINNY ARSENAL, NJ	May 2024	May 2027	106,695	93.09	Y		
FIN ASSEMBLY, M31		2022	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Dec 2021	Oct 2023	62,658	40.85	Y		
FIN ASSEMBLY, M31		2023	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	75,572	42.49	Y		
FIN ASSEMBLY, M31		2024	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	109,895	42.50	Y		
IGNITION CARTRIDGE, M1020		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2022	Jan 2023	62,658	24.86	Y		
IGNITION CARTRIDGE, M1020		2023	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	75,572	25.01	Y		
IGNITION CARTRIDGE, M1020		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	109,895	25.76	Y		
PROPELLANT CHARGE, M234A1		2022	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2022	Mar 2023	250,632	22.36	Y		
PROPELLANT CHARGE, M234A1		2023	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	302,288	25.49	Y		
PROPELLANT CHARGE, M234A1		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	439,583	26.01	Y		
SHELL BODY, 120MM FRPC		2022	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2022	Apr 2024	62,658	136.87	Y		
SHELL BODY, 120MM FRPC		2023	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	75,572	135.79	Y		
SHELL BODY, 120MM FRPC		2024	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	109,895	139.12	Y		
FUZE PRACTICE, M781		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Dec 2021	May 2023	62,658	22.15	Y		
FUZE PRACTICE, M781		2023	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	75,572	23.41	Y		
FUZE PRACTICE, M781		2024	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	109,895	22.79	Y		
^(†) indicates the presence of a P-21												

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33	P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types	Item Number / Title [DODIC]: E25507 / CTG, 120mm Mortar FRTR, M931 Series w/Pract Fuze [CA09]
Remarks: Ignition Cartridges: IDIQ awarded (FY 2018) to Nammo Pocal Industries, Scranton, PA. Propellant Charges: IDIQ awarded (FY 2018) to multiple contractors. Requirements will be competed among the following contractors: American Ordnance, Middletown, IA; and General Dynamics, Marion, IL. Fuze: IDIQ awarded (FY 2018) to Nammo Pocal Industries, Scranton, PA. Shell Bodies, IDIQ awarded (FY 2018) to General Dynamics OTS, Wilkes Barre, PA. New FY 2023 IDIQ component contracts to be competed.		

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types										Item Number / Title [DODIC]: E25507 / CTG, 120mm Mortar FRTR, M931 Series w/Pract Fuze [CA09]													
Cost Elements (Units in Thousands)							Fiscal Year 2022													Fiscal Year 2023													B A L A N C E
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LOAD, ASSEMBLE, PACK (LAP)																																	
Prior Years Deliveries: 641184																																	
	1	2022	ARMY	60.833	.000	60.833			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60.833		
	1	2023	ARMY	73.371	.000	73.371																					A -	-	-	-	-	73.371	
	1	2024	ARMY	106.695	.000	106.695																										106.695	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33							P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types															Item Number / Title [DODIC]: E25507 / CTG, 120mm Mortar FRTR, M931 Series w/Pract Fuze [CA09]										
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2024												Fiscal Year 2025												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
LOAD, ASSEMBLE, PACK (LAP)																																
Prior Years Deliveries: 641184																																
	1	2022	ARMY	60.833	.000	60.833	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.000	12.000	12.000	12.000	12.833		.000
	1	2023	ARMY	73.371	.000	73.371	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73.371
	1	2024	ARMY	106.695	.000	106.695	A -							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106.695
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types										Item Number / Title [DODIC]: E25507 / CTG, 120mm Mortar FRTR, M931 Series w/Pract Fuze [CA09]															
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2026													Fiscal Year 2027													B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
LOAD, ASSEMBLE, PACK (LAP)																																			
Prior Years Deliveries: 641184																																			
	1	2022	ARMY	60.833	60.833	.000																													.000
	1	2023	ARMY	73.371	.000	73.371	-	-	-	-	-	-	-	24.000	24.000	25.371																			.000
	1	2024	ARMY	106.695	.000	106.695	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.000	12.000	12.000	12.000	12.000	46.695	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33							P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types												Item Number / Title [DODIC]: E25507 / CTG, 120mm Mortar FRTR, M931 Series w/Pract Fuze [CA09]														
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2028												Fiscal Year 2029												B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2027	BAL DUE AS OF 1 OCT	Calendar Year 2028												Calendar Year 2029														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LOAD, ASSEMBLE, PACK (LAP)																																	
Prior Years Deliveries: 641184																																	
	1	2022	ARMY	60.833	60.833	.000																											.000
	1	2023	ARMY	73.371	73.371	.000																											.000
	1	2024	ARMY	106.695	60.000	46.695	12.000	12.000	12.000	10.695																							.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33					P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types				Item Number / Title [DODIC]: E25507 / CTG, 120mm Mortar FRTR, M931 Series w/Pract Fuze [CA09]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	GEN DYNAMICS ORD & TAC SYS - - LE GARDEUR, CANADA	10,000	12,000	24,000	5	5	36	41	5	5	36	41

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33							P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types						Item Number / Title [DODIC]: E91300 / CTG, 120mm Mortar WP Smoke, M929 Series w/MOFM [CA03]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (<i>Units in Each</i>)				-			-			-			-			-			-		
Gross/Weapon System Cost (<i>\$ in Millions</i>)				304.428			18.792			19.871			16.126			-			16.126		
Less PY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Net Procurement (P-1) (<i>\$ in Millions</i>)				304.428			18.792			19.871			16.126			-			16.126		
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Total Obligation Authority (<i>\$ in Millions</i>)				304.428			18.792			19.871			16.126			-			16.126		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
LOAD, ASSEMBLE, PACK (LAP) ^(†)	377.64	77,053	29.098	427.16	12,338	5.270	440.33	13,214	5.819	449.21	10,095	4.535	-	-	-	449.21	10,095	4.535			
FIN ASSEMBLY, M31 ^(†)	41.17	79,364	3.268	40.85	12,708	0.519	42.49	13,610	0.578	42.50	10,397	0.442	-	-	-	42.50	10,397	0.442			
IGNITION CARTRIDGE, M1020 ^(†)	24.07	79,364	1.910	24.86	12,708	0.316	25.01	13,610	0.340	25.76	10,397	0.268	-	-	-	25.76	10,397	0.268			
PROPELLANT CHARGE, M234A1 ^(†)	21.11	317,458	6.703	22.36	50,833	1.137	25.49	54,441	1.388	26.01	41,591	1.082	-	-	-	26.01	41,591	1.082			
SHELL BODY, 120MM SMK ^(†)	281.03	79,364	22.304	256.38	12,708	3.258	257.65	13,610	3.507	266.78	10,397	2.774	-	-	-	266.78	10,397	2.774			
BURSTER HOUSING, 120MM SMOKE ^(†)	84.75	79,364	6.726	62.77	12,708	0.798	91.21	13,610	1.241	86.13	10,397	0.895	-	-	-	86.13	10,397	0.895			
FUZE MOFM, M734A1 ^(†)	243.35	79,364	19.313	260.26	12,708	3.307	259.23	13,610	3.528	283.41	10,397	2.947	-	-	-	283.41	10,397	2.947			
BURSTER ASSEMBLY, M86 ^(†)	53.92	79,364	4.279	62.77	12,708	0.798	64.02	13,610	0.871	74.43	10,397	0.774	-	-	-	74.43	10,397	0.774			
FIBER CONTAINER PA 167, 120MM ^(†)	12.85	79,364	1.020	13.89	12,708	0.177	13.93	13,610	0.190	14.45	10,397	0.150	-	-	-	14.45	10,397	0.150			

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types						Item Number / Title [DODIC]: E91300 / CTG, 120mm Mortar WP Smoke, M929 Series w/MOFM [CA03]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
METAL CONTAINER PA 154, 120MM ^(†)	63.53	40,068	2.546	70.45	6,416	0.452	69.15	6,871	0.475	72.62	5,249	0.381	-	-	-	72.62	5,249	0.381
Subtotal: Recurring Cost	-	-	97.166	-	-	16.031	-	-	17.937	-	-	14.247	-	-	-	-	-	14.247
Subtotal: Hardware Cost	-	-	97.166	-	-	16.031	-	-	17.937	-	-	14.247	-	-	-	-	-	14.247
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.800	-	-	0.031	-	-	0.141	-	-	0.140	-	-	-	-	-	0.140
Subtotal: Support - Acceptance Testing Cost	-	-	0.800	-	-	0.031	-	-	0.141	-	-	0.140	-	-	-	-	-	0.140
Support - Production Engineering Cost																		
Production Engineering	-	-	206.461	-	-	2.729	-	-	1.793	-	-	1.738	-	-	-	-	-	1.738
Subtotal: Support - Production Engineering Cost	-	-	206.461	-	-	2.729	-	-	1.793	-	-	1.738	-	-	-	-	-	1.738
Gross/Weapon System Cost	-	-	304.428	-	-	18.792	-	-	19.871	-	-	16.126	-	-	-	-	-	16.126

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33				P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types					Item Number / Title [DODIC]: E91300 / CTG, 120mm Mortar WP Smoke, M929 Series w/MOFM [CA03]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Feb 2022	Jul 2025	12,338	427.16	Y		
LOAD, ASSEMBLE, PACK (LAP)		2023	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Feb 2023	Feb 2026	13,214	440.33	Y		
LOAD, ASSEMBLE, PACK (LAP)		2024	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Feb 2024	Feb 2027	10,095	449.21	Y		
FIN ASSEMBLY, M31		2022	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Dec 2021	Jun 2023	12,708	40.85	Y		
FIN ASSEMBLY, M31		2023	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	13,610	42.49	Y		
FIN ASSEMBLY, M31		2024	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2024	Aug 2025	10,397	42.50	Y		
IGNITION CARTRIDGE, M1020		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2022	Aug 2023	12,708	24.86	Y		
IGNITION CARTRIDGE, M1020		2023	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	13,610	25.01	Y		
IGNITION CARTRIDGE, M1020		2024	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	10,397	25.76	Y		
PROPELLANT CHARGE, M234A1		2022	AMERICAN ORDANCE LLC (IAAP) / MIDDLETOWN, IA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Apr 2022	Oct 2023	50,833	22.36	Y		
PROPELLANT CHARGE, M234A1		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	54,441	25.49	Y		
PROPELLANT CHARGE, M234A1		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	41,591	26.01	Y		
SHELL BODY, 120MM SMK		2022	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Apr 2022	Oct 2023	12,708	256.38	Y		
SHELL BODY, 120MM SMK		2023	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	13,610	257.65	Y		
SHELL BODY, 120MM SMK		2024	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2024	Aug 2025	10,397	266.78	Y		
BURSTER HOUSING, 120MM SMOKE		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	12,708	62.77	Y		
BURSTER HOUSING, 120MM SMOKE		2023	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	13,610	91.21	Y		
BURSTER HOUSING, 120MM SMOKE		2024	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2024	Aug 2025	10,397	86.13	Y		
FUZE MOFM, M734A1		2022	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Dec 2022	Jun 2025	12,708	260.26	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33				P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types					Item Number / Title [DODIC]: E91300 / CTG, 120mm Mortar WP Smoke, M929 Series w/MOFM [CA03]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
FUZE MOFM, M734A1		2023	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Apr 2023	Oct 2024	13,610	259.23	Y		
FUZE MOFM, M734A1		2024	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Feb 2024	Aug 2025	10,397	283.41	Y		
BURSTER ASSEMBLY, M86		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	12,708	62.77	Y		
BURSTER ASSEMBLY, M86		2023	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	13,610	64.02	Y		
BURSTER ASSEMBLY, M86		2024	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2024	Aug 2025	10,397	74.43	Y		
FIBER CONTAINER PA 167, 120MM		2022	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	12,708	13.89	Y		
FIBER CONTAINER PA 167, 120MM		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	13,610	13.93	Y		
FIBER CONTAINER PA 167, 120MM		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	10,397	14.45	Y		
METAL CONTAINER PA 154, 120MM		2022	BWAY CORPORATION / ATLANTA, GA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2022	Aug 2023	6,416	70.45	Y		
METAL CONTAINER PA 154, 120MM		2023	BWAY CORPORATION / ATLANTA, GA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	6,871	69.15	Y		
METAL CONTAINER PA 154, 120MM		2024	BWAY CORPORATION / ATLANTA, GA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	5,249	72.62	Y		
Remarks: Propellant Charges: IDIQ awarded (FY 2018) to multiple contractors. Requirements will be competed among the following contractors: American Ordnance, Middletown, IA; and General Dynamics, Marion, IL. Ignition Cartridges: IDIQ awarded (FY 2018) to Nammo Pocal Industries, Scranton, PA. New FY 2023 IDIQ component contracts to be competed.												

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types						Item Number / Title [DODIC]: E91400 / CTG, 120mm Mortar HE, M934 Series w/MOFM [CA04]						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				186.279		14.388		15.245		20.134		-		20.134				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				186.279		14.388		15.245		20.134		-		20.134				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				186.279		14.388		15.245		20.134		-		20.134				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	134.50	90,316	12.148	153.57	17,046	2.618	151.48	15,962	2.418	389.29	15,172	5.906	-	-	-	389.29	15,172	5.906
SHELL BODY, 120MM HE ^(†)	120.47	93,272	11.237	143.81	17,558	2.525	140.64	16,440	2.312	149.64	15,627	2.338	-	-	-	149.64	15,627	2.338
IGNITION CARTRIDGE, M1020 ^(†)	24.10	93,272	2.248	24.86	17,558	0.436	25.01	16,440	0.411	25.76	15,627	0.403	-	-	-	25.76	15,627	0.403
COMP B TYPE I GRADE A ^(†)	14.95	360,003	5.382	-	-	-	14.35	143,658	2.061	13.32	136,548	1.819	-	-	-	13.32	136,548	1.819
*COMP B TYPE I GRADE A ^(†)	13.67	425,619	5.820	14.07	153,414	2.159	-	-	-	-	-	-	-	-	-	-	-	-
PROPELLANT CHARGE, M234A ^{1(†)}	18.76	373,095	6.998	22.36	70,229	1.570	25.49	65,763	1.676	26.01	62,508	1.626	-	-	-	26.01	62,508	1.626
FIN ASSEMBLY, M31 ^(†)	37.83	93,272	3.528	40.85	17,558	0.717	42.49	16,440	0.699	42.50	15,627	0.664	-	-	-	42.50	15,627	0.664
PBXW-12 BULK EXPLOSIVE ^(†)	109.89	2,857	0.314	70.27	1,875	0.132	-	-	-	126.18	1,668	0.210	-	-	-	126.18	1,668	0.210
FUZE MOFM, M734A ^{1(†)}	230.54	93,272	21.503	260.26	17,558	4.570	259.23	16,440	4.262	283.41	15,627	4.429	-	-	-	283.41	15,627	4.429
Subtotal: Recurring Cost	-	-	69.177	-	-	14.727	-	-	13.839	-	-	17.395	-	-	-	-	-	17.395

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023																			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33					P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types										Item Number / Title [DODIC]: E91400 / CTG, 120mm Mortar HE, M934 Series w/MOFM [CA04]														
ID Code (A=Service Ready, B=Not Service Ready) : A															MDAP/MAIS Code:														

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Hardware Cost	-	-	69.177	-	-	14.727	-	-	13.839	-	-	17.395	-	-	-	-	-	17.395
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.358	-	-	0.210	-	-	0.181	-	-	0.180	-	-	-	-	-	0.180
Subtotal: Support - Acceptance Testing Cost	-	-	0.358	-	-	0.210	-	-	0.181	-	-	0.180	-	-	-	-	-	0.180
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-5.820	-	-	-2.159	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Government Furnished Materials Cost	-	-	-5.820	-	-	-2.159	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Safety	-	-	0.057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	0.057	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	122.506	-	-	1.610	-	-	1.224	-	-	2.559	-	-	-	-	-	2.559
Subtotal: Support - Production Engineering Cost	-	-	122.506	-	-	1.610	-	-	1.224	-	-	2.559	-	-	-	-	-	2.559
Gross/Weapon System Cost	-	-	186.279	-	-	14.388	-	-	15.245	-	-	20.134	-	-	-	-	-	20.134

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types					Item Number / Title [DODIC]: E91400 / CTG, 120mm Mortar HE, M934 Series w/MOFM [CA04]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2022	GEN DYNAMICS ORD & TAC SYS - / LE GARDEUR, CANADA	Option / IDIQ	PICATINNY ARSENAL, NJ	Dec 2021	Sep 2025	17,046	153.57	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2023	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	May 2023	May 2026	15,962	151.48	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2024	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	May 2024	May 2027	15,172	389.29	Y		
SHELL BODY, 120MM HE		2022	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2022	Sep 2024	17,558	143.81	Y		
SHELL BODY, 120MM HE		2023	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	16,440	140.64	Y		
SHELL BODY, 120MM HE		2024	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	15,627	149.64	Y		
IGNITION CARTRIDGE, M1020		2022	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2022	Dec 2023	17,558	24.86	Y		
IGNITION CARTRIDGE, M1020		2023	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	16,440	25.01	Y		
IGNITION CARTRIDGE, M1020		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	15,627	25.76	Y		
COMP B TYPE I GRADE A		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Feb 2024	143,658	14.35	Y		
COMP B TYPE I GRADE A		2024	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Feb 2025	136,548	13.32	Y		
*COMP B TYPE I GRADE A		2022	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE,	GFM	PICATINNY ARSENAL, NJ	Sep 2022	Sep 2023	153,414	14.07	N		
PROPELLANT CHARGE, M234A1		2022	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2022	Mar 2023	70,229	22.36	Y		
PROPELLANT CHARGE, M234A1		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	65,763	25.49	Y		
PROPELLANT CHARGE, M234A1		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	62,508	26.01	Y		
FIN ASSEMBLY, M31		2022	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Dec 2021	Mar 2022	17,558	40.85	Y		
FIN ASSEMBLY, M31		2023	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	16,440	42.49	Y		
FIN ASSEMBLY, M31		2024	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	15,627	42.50	Y		
PBXW-12 BULK EXPLOSIVE		2022	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2022	Nov 2022	1,875	70.27	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33				P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types					Item Number / Title [DODIC]: E91400 / CTG, 120mm Mortar HE, M934 Series w/MOFM [CA04]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
PBXW-12 BULK EXPLOSIVE		2024	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2026	1,668	126.18	Y		
FUZE MOFM, M734A1		2022	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Dec 2021	Jun 2023	17,558	260.26	Y		
FUZE MOFM, M734A1		2023	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Apr 2023	Oct 2025	16,440	259.23	Y		
FUZE MOFM, M734A1		2024	L-3 FUZING & ORDANCE SYSTEMS / CINCINNATI, OH	Option / FFP	PICATINNY ARSENAL, NJ	Feb 2024	Aug 2026	15,627	283.41	Y		
<p>(†) indicates the presence of a P-21</p> <p>Remarks: Propellant Charges: IDIQ awarded (FY 2018) to multiple contractors. Requirements will be competed among the following contractors: American Ordnance, Middletown, IA. and General Dynamics, Marion, IL. Ignition Cartridges: IDIQ awarded (FY 2018) to Nammo Pocal Industries, Scranton, PA. Shell Bodies: IDIQ awarded (FY 2018) to General Dynamics OTS, Wilkes Barre, PA. New FY 2023 IDIQ component contracts to be competed.</p>												

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types										Item Number / Title [DODIC]: E91400 / CTG, 120mm Mortar HE, M934 Series w/MOFM [CA04]													
Cost Elements (Units in Thousands)							Fiscal Year 2022													Fiscal Year 2023													B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LOAD, ASSEMBLE, PACK (LAP)																																	
Prior Years Deliveries: 90316																																	
	2	2022	ARMY	17.046	.000	17.046			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.046	
	1	2023	ARMY	15.962	.000	15.962																						A -	-	-	-	-	15.962
	1	2024	ARMY	15.172	.000	15.172																											15.172
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33							P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types															Item Number / Title [DODIC]: E91400 / CTG, 120mm Mortar HE, M934 Series w/MOFM [CA04]									
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2024												Fiscal Year 2025												B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
LOAD, ASSEMBLE, PACK (LAP)																															
Prior Years Deliveries: 90316																															
	2	2022	ARMY	17.046	.000	17.046	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.000	9.046
	1	2023	ARMY	15.962	.000	15.962	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.962
	1	2024	ARMY	15.172	.000	15.172	A -							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.172
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33										P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types										Item Number / Title [DODIC]: E91400 / CTG, 120mm Mortar HE, M934 Series w/MOFM [CA04]													
Cost Elements (Units in Thousands)							Fiscal Year 2026													Fiscal Year 2027													B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026							Calendar Year 2027																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LOAD, ASSEMBLE, PACK (LAP)																																	
Prior Years Deliveries: 90316																																	
	2	2022	ARMY	17.046	8.000	9.046	9.046																							.000			
	1	2023	ARMY	15.962	.000	15.962	-	-	-	-	-	-	-	15.962																.000			
	1	2024	ARMY	15.172	.000	15.172	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.172					.000		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33					P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types				Item Number / Title [DODIC]: E91400 / CTG, 120mm Mortar HE, M934 Series w/MOFM [CA04]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	10,000	15,000	30,000	5	5	36	41	5	5	36	41
2	GEN DYNAMICS ORD & TAC SYS - - LE GARDEUR, CANADA	10,000	15,000	30,000	6	6	36	42	6	6	36	42

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types					Item Number / Title [DODIC]: E91500 / CTG, 120mm Mortar IR ILLUM, M983 Series w/MTSQ [CA07]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				219.276		-		24.183		-		-		-				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				219.276		-		24.183		-		-		-				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				219.276		-		24.183		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	59.47	195,114	11.603	-	-	-	472.52	13,830	6.535	-	-	-	-	-	-	-	-	-
FUZE MTSQ, M776 ^(†)	224.32	73,426	16.471	-	-	-	237.45	14,245	3.382	-	-	-	-	-	-	-	-	-
120MM ILLUM BODY ^(†)	295.97	200,968	59.481	-	-	-	164.59	14,245	2.345	-	-	-	-	-	-	-	-	-
PROPELLANT CHARGE, M234A1 ^(†)	21.09	803,868	16.950	-	-	-	25.50	56,980	1.453	-	-	-	-	-	-	-	-	-
METAL CONTAINER PA 154, 120MM ^(†)	63.75	69,536	4.433	-	-	-	69.16	7,192	0.497	-	-	-	-	-	-	-	-	-
IR ILLUM CANNISTER, 120MM ^(†)	357.63	73,426	26.259	-	-	-	378.72	14,245	5.395	-	-	-	-	-	-	-	-	-
IGNITION CARTRIDGE, M1020 ^(†)	26.40	200,968	5.306	-	-	-	25.01	14,245	0.356	-	-	-	-	-	-	-	-	-
PARACHUTE, 120MM ^(†)	54.80	200,968	11.013	-	-	-	58.11	14,245	0.828	-	-	-	-	-	-	-	-	-
FIBER CONTAINER PA 167, 120MM ^(†)	13.61	200,968	2.735	-	-	-	13.93	14,245	0.198	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33						P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types						Item Number / Title [DODIC]: E91500 / CTG, 120mm Mortar IR ILLUM, M983 Series w/MTSQ [CA07]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
FIN ASSEMBLY, M31 ^(†)	40.18	200,968	8.075	-	-	-	42.49	14,245	0.605	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	162.324	-	-	-	-	-	21.595	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	162.324	-	-	-	-	-	21.595	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	45.147	-	-	-	-	-	0.131	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	45.147	-	-	-	-	-	0.131	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	11.804	-	-	-	-	-	2.457	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	11.804	-	-	-	-	-	2.457	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	219.276	-	-	-	-	-	24.183	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 33			P-1 Line Item Number / Title: 6780E25500 / 120MM Mortar, All Types					Item Number / Title [DODIC]: E91500 / CTG, 120mm Mortar IR ILLUM, M983 Series w/MTSQ [CA07]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2023	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2025	13,830	472.52	Y		
FUZE MTSQ, M776		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Aug 2023	Feb 2025	14,245	237.45	Y		
120MM ILLUM BODY		2023	GENERAL DYNAMICS ORD & TAC / WILKES BARRE, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	14,245	164.59	Y		
PROPELLANT CHARGE, M234A1		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	56,980	25.50	Y		
METAL CONTAINER PA 154, 120MM		2023	BWAY CORPORATION / ATLANTA, GA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	7,192	69.16	Y		
IR ILLUM CANNISTER, 120MM		2023	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2023	Oct 2024	14,245	378.72	Y		
IGNITION CARTRIDGE, M1020		2023	NAMMO POCAL INC. / SCRANTON, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	14,245	25.01	Y		
PARACHUTE, 120MM		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	14,245	58.11	Y		
FIBER CONTAINER PA 167, 120MM		2023	UNITED AMMUNITION CONTAINER / WYNNEWOOD, PA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	14,245	13.93	Y		
FIN ASSEMBLY, M31		2023	MACHINING TECHNOLOGIES INC / SALISBURY, MD	Option / IDIQ	PICATINNY ARSENAL, NJ	Feb 2023	Aug 2024	14,245	42.49	Y		
Remarks: Propellant Charges: IDIQ awarded (FY 2018) to multiple contractors. Requirements will be competed among the following contractors: American Ordnance, Middletown, IA. and General Dynamics, Marion, IL. Ignition Cartridges: IDIQ awarded (FY2018) to Nammo Pocal INC., Scranton, PA. Shell Bodies: IDIQ awarded (FY 2018) to General Dynamics OTS, Wilkes Barre, PA. New FY 2023 IDIQ component contracts to be competed.												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 35: Tank Ammunition							P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,985.134	204.003	278.774	300.368	-	300.368	378.038	403.573	406.564	437.573	-	6,394.027
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,985.134	204.003	278.774	300.368	-	300.368	378.038	403.573	406.564	437.573	-	6,394.027
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,985.134	204.003	278.774	300.368	-	300.368	378.038	403.573	406.564	437.573	-	6,394.027
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description: This budget line includes CARTRIDGE, TANK, 105MM and 120MM ALL TYPES:</p> <p>(E22125) M724A2 Cartridge replaces the (E22100) M724A1 Cartridge and provides the Army with a range limited (7,000 meters, maximum) round which can be safely fired at all training sites. The Cartridge, M724A2, 105mm Target Practice Discarding Sabot with Tracer (TPDS-T) will be used for gunnery training in the Army's 105mm Mobile Protected Firepower (MPF) platform. This discarding sabot round is similar in external appearance and is ballistically similar out to 2,000 meters with the M900, Armor Piercing Fin Stabilized Discarding Sabot w/Tracer Cartridge. It is used as a training surrogate for the M900 Cartridge. The M724A2 Cartridge consists of a deep drawn steel cartridge case, electric primer, propellant and a projectile consisting of a sub-projectile (steel core, windshield, fin and tracer) and aluminum sabot. This item is Code A, approved for service use.</p> <p>(E73201) Cartridge, 120mm, Target Practice Multi Purpose-Tracer (TPMP-T) M1002 is a target practice cartridge that simulates the size, weight, ballistics and the loader's function of setting the nose switch of the High Explosive Multi-Purpose cartridge M830A1. This round is fired from the M256 120mm smoothbore cannon on the M1A1/M1A2 Abrams Tank. The projectile is inert and composed of an aluminum body, steel nose with dummy plastic switch, aluminum tailcone, aluminum sabot, nylon obturators and tracer. The tailcone imparts spin to the projectile in flight for stabilization and provides the mechanism to limit the projectile's maximum range. The M1002 replaces the M831A1 cartridge. Tank crews will conduct live fire training with the cartridge to achieve and maintain gunnery proficiency. This item is Code A, approved for service use.</p> <p>(E73400) 120mm M865A1 (Longer Length) Target Practice Cone-Stabilized Discarding Sabot with Tracer (TPCSDS-T) is the follow on to the M865 TPCSDS-T. The M865A1 is a target practice round that simulates the ballistics of the 120mm M829 Series Armor Piercing Fin-Stabilized Discarding Sabot with Tracer (APFSDS-T) round and is a more accurate representation of the M829A4, in terms of size and handling, than its predecessor. This round is fired from the M256 120mm smoothbore cannon on the M1A1/M1A2 Abrams Tank. The projectile is inert and is composed of a steel core, aluminum fin, aluminum sabots, nylon obturator and tracer. The fin imparts spin to the projectile in flight for stabilization and provides the mechanism to limit the projectile's maximum range. Tank crews will conduct live fire training with the cartridge to achieve and maintain gunnery proficiency. This item is Code A, approved for service use.</p> <p>(E88105) 120mm HEMP-T, XM1147 The Advanced Multi Purpose (AMP) program is a direct fire line of sight 120mm large caliber munition under development for the Abrams Main Battle Tank. It has three modes of operation including point detonate, point detonate delay and airburst. AMP is the material solution for breaching double reinforced concrete walls and defeating Anti Tank Guided Missile (ATGM) teams from 50m to 2000m (T) and 50m to 4500m (O), a validated gap that cannot currently be met with existing stockpiled ammunition. In addition to added capability, AMP will also consolidate the capabilities of four</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 35: Tank Ammunition		P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>existing stockpiled 120mm munitions, thereby addressing the users' battlecarry dilemma by allowing them to load a single munition that is capable of defeating multiple targets including ATGM teams, reinforced walls, personnel, light armor, bunkers, and obstacles. This item is Code B, not approved for service use.</p> <p>(E88106) 120mm M829A4 Armor Piercing Fin Stabilized, Discarding Sabot with Tracer (APFSDS-T) cartridge is the follow on to the M829A3 APFSDS-T cartridge. The M829A4 is the most effective anti-armor kinetic energy cartridge fired from the M256 120mm smoothbore cannon on the M1A1/M1A2 Abrams Tank. This cartridge has been designed to defeat advances in armor protection, specifically advancement in explosive reactive armor (ERA). The cartridge incorporates advancements in propulsion, using a temperature insensitive propellant, novel penetrator design, and an advanced composite sabot. The projectile system consists of a depleted uranium penetrator mated to a drag reducing windshield and flight stabilizing multi-bladed fin, all secured for launch with a composite sabot. The M829A4 captures several new technologies along with components previously used on previous APFSDS-T cartridges, but incorporates technology advancements to yield significant improvement in performance over previous fielded cartridges. This item is Code A, approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 35: Tank Ammunition

P-1 Line Item Number / Title:
1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E22125 / CTG, 105mm Tank TPDS-T, M724A2 (Short Rg KE Trmr) [CA58]	P-5a	A		- / 53.493	- / -	- / 6.952	- / -	- / -	- / -
P-5	E73201 / CTG, 120mm Tank, M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]	P-5a, P-21	A		- / 673.401	- / 89.923	- / 80.557	- / 83.214	- / -	- / 83.214
P-5	E73400 / CTG, 120mm Tank TPCSDS-T, M865 [CA69]	P-5a, P-21	A		- / 2,837.867	- / 67.967	- / 125.886	- / 130.167	- / -	- / 130.167
P-5	E88105 / CTG, 120MM TANK, HEMP-T, XM1147 [CA71]	P-5a, P-21	B		- / 57.644	- / 23.359	- / 25.204	- / 22.146	- / -	- / 22.146
P-5	E88106 / CTG, 120mm Tank APFSDS-T, M829A4 [CA64]	P-5a, P-21	A		- / 362.729	- / 22.754	- / 40.175	- / 64.841	- / -	- / 64.841
P-40	Total Gross/Weapon System Cost				- / 3,985.134	- / 204.003	- / 278.774	- / 300.368	- / -	- / 300.368

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."

FY 2024 Total Base dollars in the amount of \$300.368 million supports the procurement of 72,188 cartridges.

(E22125) M724A2
This is a training unique item not used in combat. There is no FY 2024 request for this item.
Type Classification Date: 2016

(E73201) M1002 (TPMP-T)
This is a training unique item not used in combat. FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$83.214 million supports the procurement of 27,969 cartridges.
Type Classification Date: 2006

(E73400) M865A1 (Longer Length)
This is a training unique item not used in combat. FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$130.167 million supports the procurement of 38,860 cartridges.
Type Classification Date: 1984

(E88105) XM1147 (HEMP-T)

LI 1120E22203 - Cartridges, Tank, 105MM And 120MM, All T...
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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 35: Tank Ammunition		P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
Advanced Multi Purpose (AMP) - This is a war reserve item used in combat. FY 2024 request builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$22.146 million supports the procurement of 2,404 cartridges. There are no FY 2024 Base procurement dollars in support of the European Deterrence Initiative (EDI). This is a decrease of \$1.297 million from the FY 2023 enacted level. Type Classification Date: 2020		
(E88106) M829A4 (APFSDS-T) This is a war reserve item used in combat. FY 2024 request builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$64.841 million supports the procurement of 2,955 cartridges. Type Classification Date: 2015		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35						P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types					Item Number / Title [DODIC]: E22125 / CTG, 105mm Tank TPDS-T, M724A2 (Short Rg KE Trnr) [CA58]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				53.493		-		6.952		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				53.493		-		6.952		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				53.493		-		6.952		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	2,358.20	16,875	39.795	-	-	-	2,538.33	1,943	4.932	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	39.795	-	-	-	-	-	4.932	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	39.795	-	-	-	-	-	4.932	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
First Article Test	-	-	3.190	-	-	-	-	-	0.589	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	3.491	-	-	-	-	-	0.589	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Safety	-	-	0.537	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	0.537	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	9.671	-	-	-	-	-	1.431	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	9.671	-	-	-	-	-	1.431	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	53.493	-	-	-	-	-	6.952	-	-	-	-	-	-	-	-	-
Remarks:																		

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35	P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types	Item Number / Title [DODIC]: E22125 / CTG, 105mm Tank TPDS-T, M724A2 (Short Rg KE Trnr) [CA58]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<p>The M724A2 round is procured using a skip year strategy for cost efficiencies due to low quantity buys.</p> <p>(†) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35				P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types				Item Number / Title [DODIC]: E22125 / CTG, 105mm Tank TPDS-T, M724A2 (Short Rg KE Trnr) [CA58]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2023	GENERAL DYNAMICS ORD AND TACT / ST PETERSBURG, FL	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2023	May 2024	1,943	2,538.33	Y		

Remarks:
The M724A2 round is procured via a skip year strategy.

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35						P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types						Item Number / Title [DODIC]: E73201 / CTG, 120mm Tank, M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-						
Gross/Weapon System Cost (<i>\$ in Millions</i>)				673.401		89.923		80.557		83.214		-		83.214						
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Net Procurement (P-1) (<i>\$ in Millions</i>)				673.401		89.923		80.557		83.214		-		83.214						
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Total Obligation Authority (<i>\$ in Millions</i>)				673.401		89.923		80.557		83.214		-		83.214						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
COMPLETE ROUND ^(†)	2,198.91	283,598	623.608	2,699.45	27,640	74.613	2,686.24	27,429	73.681	2,739.72	27,969	76.627	-	-	-	2,739.72	27,969	76.627		
Subtotal: Recurring Cost	-	-	623.608	-	-	74.613	-	-	73.681	-	-	76.627	-	-	-	-	-	76.627		
Subtotal: Hardware Cost	-	-	623.608	-	-	74.613	-	-	73.681	-	-	76.627	-	-	-	-	-	76.627		
Support - Acceptance Testing Cost																				
Acceptance Test	-	-	4.839	-	-	1.364	-	-	0.977	-	-	1.050	-	-	-	-	-	1.050		
First Article Test	-	-	-	-	-	0.600	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Acceptance Testing Cost	-	-	4.839	-	-	1.964	-	-	0.977	-	-	1.050	-	-	-	-	-	1.050		
Support - Non-Recurring Support Cost																				
Value Engineering	-	-	0.419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Non-Recurring Support Cost	-	-	0.419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Product Improvement Cost																				
Production Verification Test	-	-	2.340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Safety	-	-	5.860	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Reliability	-	-	4.557	-	-	8.901	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Product Improvement Cost	-	-	12.757	-	-	8.901	-	-	-	-	-	-	-	-	-	-	-	-		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35						P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types						Item Number / Title [DODIC]: E73201 / CTG, 120mm Tank, M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Production Engineering Cost																		
Production Engineering	-	-	31.745	-	-	4.389	-	-	5.896	-	-	5.523	-	-	-	-	-	5.523
Subtotal: Support - Production Engineering Cost	-	-	31.745	-	-	4.389	-	-	5.896	-	-	5.523	-	-	-	-	-	5.523
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.034	-	-	0.004	-	-	0.004	-	-	0.013	-	-	-	-	-	0.013
Subtotal: Support - Quality Assurance Cost	-	-	0.034	-	-	0.004	-	-	0.004	-	-	0.013	-	-	-	-	-	0.013
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.052	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Study & Analysis Cost	-	-	-	-	-	0.052	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	673.401	-	-	89.923	-	-	80.557	-	-	83.214	-	-	-	-	-	83.214

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35				P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types				Item Number / Title [DODIC]: E73201 / CTG, 120mm Tank, M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	NORTHROP GRUMMAN SYSTEMS CORP / PLYMOUTH, MN	C / FFP	ROCK ISLAND ARSENAL, IL	May 2022	Jun 2024	16,584	2,699.45	Y		
COMPLETE ROUND ^(†)		2022	GENERAL DYNAMICS ORD AND TACT / ST PETERSBURG, FL	C / FFP	ROCK ISLAND ARSENAL, IL	May 2022	Jun 2024	11,056	2,699.45	Y		
COMPLETE ROUND ^(†)		2023	NORTHROP GRUMMAN SYSTEMS CORP / PLYMOUTH, MN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Feb 2024	15,086	2,686.24	Y		
COMPLETE ROUND ^(†)		2023	GENERAL DYNAMICS ORD AND TACT / ST PETERSBURG, FL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Feb 2024	12,343	2,686.24	Y		
COMPLETE ROUND ^(†)		2024	NORTHROP GRUMMAN SYSTEMS CORP / PLYMOUTH, MN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Feb 2025	16,782	2,739.72	Y		
COMPLETE ROUND ^(†)		2024	GENERAL DYNAMICS ORD AND TACT / ST PETERSBURG, FL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Feb 2025	11,187	2,739.72	Y		

^(†) indicates the presence of a P-21

Remarks:
Complete round is an average unit cost between two contractors. The quantity split will be determined between the two contractors in the year of execution.

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35							P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types												Item Number / Title [DODIC]: E73201 / CTG, 120mm Tank, M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]																											
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2022												Fiscal Year 2023												B A L A N C E															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023																											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																
COMPLETE ROUND																																														
Prior Years Deliveries: 283598																																														
	1	2022	ARMY	16.584	.000	16.584													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.584									
	2	2022	ARMY	11.056	.000	11.056													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.056								
	1	2023	ARMY	15.086	.000	15.086																									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.086
	2	2023	ARMY	12.343	.000	12.343																									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.343
	1	2024	ARMY	16.782	.000	16.782																																					16.782			
	2	2024	ARMY	11.187	.000	11.187																																					11.187			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types													Item Number / Title [DODIC]: E73201 / CTG, 120mm Tank, M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2024													Fiscal Year 2025													BALANCE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024																Calendar Year 2025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Prior Years Deliveries: 283598																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	1	2022	ARMY	16.584	.000	16.584	-	-	-	-	-	-	-	-	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382	1.382

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35								P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types											Item Number / Title [DODIC]: E73201 / CTG, 120mm Tank, M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]														
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2026											Fiscal Year 2027											BALANCE				
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026							Calendar Year 2027																			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL		AUG	SEP		
COMPLETE ROUND																																	
Prior Years Deliveries: 283598																																	
	1	2022	ARMY	16.584	16.584	.000																											.000
	2	2022	ARMY	11.056	11.056	.000																											.000
	1	2023	ARMY	15.086	15.086	.000																											.000
	2	2023	ARMY	12.343	12.343	.000																											.000
	1	2024	ARMY	16.782	11.190	5.592																											1.398
	2	2024	ARMY	11.187	7.459	3.728	.932	.932	.932	.932	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	.000										

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35					P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types				Item Number / Title [DODIC]: E73201 / CTG, 120mm Tank, M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	NORTHROP GRUMMAN SYSTEMS CORP - PLYMOUTH, MN	500	8,000	24,000	6	6	11	17	6	6	11	17
2	GENERAL DYNAMICS ORD AND TACT - ST PETERSBURG, FL	500	8,000	24,000	6	6	11	17	6	6	11	17

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35							P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types						Item Number / Title [DODIC]: E73400 / CTG, 120mm Tank TPCSDS-T, M865 [CA69]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				2,837.867		67.967		125.886		130.167		-		130.167				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				2,837.867		67.967		125.886		130.167		-		130.167				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				2,837.867		67.967		125.886		130.167		-		130.167				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	731.27	3,801,718	2,780.082	3,069.47	20,277	62.240	3,086.00	38,695	119.413	3,147.72	38,860	122.320	-	-	-	3,147.72	38,860	122.320
Subtotal: Recurring Cost	-	-	2,780.082	-	-	62.240	-	-	119.413	-	-	122.320	-	-	-	-	-	122.320
Subtotal: Hardware Cost	-	-	2,780.082	-	-	62.240	-	-	119.413	-	-	122.320	-	-	-	-	-	122.320
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	4.276	-	-	0.789	-	-	0.651	-	-	0.784	-	-	-	-	-	0.784
First Article Test	-	-	0.400	-	-	0.341	-	-	-	-	-	0.300	-	-	-	-	-	0.300
Subtotal: Support - Acceptance Testing Cost	-	-	4.676	-	-	1.130	-	-	0.651	-	-	1.084	-	-	-	-	-	1.084
Support - Product Improvement Cost																		
Reliability	-	-	14.925	-	-	0.070	-	-	-	-	-	-	-	-	-	-	-	-
Safety	-	-	10.590	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production Qualification Test	-	-	0.394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production Verification Test	-	-	0.061	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	25.970	-	-	0.070	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	27.120	-	-	4.339	-	-	5.810	-	-	6.751	-	-	-	-	-	6.751

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35						P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types						Item Number / Title [DODIC]: E73400 / CTG, 120mm Tank TPCSDS-T, M865 [CA69]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Production Engineering Cost	-	-	27.120	-	-	4.339	-	-	5.810	-	-	6.751	-	-	-	-	-	6.751
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.020	-	-	0.004	-	-	0.012	-	-	0.011	-	-	-	-	-	0.011
Subtotal: Support - Quality Assurance Cost	-	-	0.020	-	-	0.004	-	-	0.012	-	-	0.011	-	-	-	-	-	0.011
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.184	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Study & Analysis Cost	-	-	-	-	-	0.184	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	2,837.867	-	-	67.967	-	-	125.886	-	-	130.167	-	-	-	-	-	130.167
Remarks:																		
Complete round is an average unit cost between two contractors. The quantity split will be determined between the two contractors in the year of execution.																		
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35				P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types					Item Number / Title [DODIC]: E73400 / CTG, 120mm Tank TPCSDS-T, M865 [CA69]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	NORTHROP GRUMMAN SYSTEMS CORP / PLYMOUTH, MN	C / FFP	ROCK ISLAND ARSENAL, IL	May 2022	Jun 2024	12,166	3,069.47	Y		
COMPLETE ROUND ^(†)		2022	GENERAL DYNAMICS ORD AND TACT / ST PETERSBURG, FL	C / FFP	ROCK ISLAND ARSENAL, IL	May 2022	Jun 2024	8,111	3,069.47	Y		
COMPLETE ROUND ^(†)		2023	NORTHROP GRUMMAN SYSTEMS CORP / PLYMOUTH, MN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	19,348	3,086.00	Y		
COMPLETE ROUND ^(†)		2023	GENERAL DYNAMICS ORD AND TACT / ST PETERSBURG, FL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	19,347	3,086.00	Y		
COMPLETE ROUND ^(†)		2024	NORTHROP GRUMMAN SYSTEMS CORP / PLYMOUTH, MN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	23,316	3,147.72	Y		
COMPLETE ROUND ^(†)		2024	GENERAL DYNAMICS ORD AND TACT / ST PETERSBURG, FL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	15,544	3,147.72	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																	
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35							P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types												Item Number / Title [DODIC]: E73400 / CTG, 120mm Tank TPCSDS-T, M865 [CA69]																	
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2022												Fiscal Year 2023												B A L A N C E					
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
COMPLETE ROUND																																				
Prior Years Deliveries: 3801718																																				
	1	2022	ARMY	12.166	.000	12.166								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.166				
	2	2022	ARMY	8.111	.000	8.111								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.111			
	1	2023	ARMY	19.348	.000	19.348																A -			-	-	-	-	-	-	-	-	-	-	-	19.348
	2	2023	ARMY	19.347	.000	19.347																A -			-	-	-	-	-	-	-	-	-	-	-	19.347
	1	2024	ARMY	23.316	.000	23.316																									23.316					
	2	2024	ARMY	15.544	.000	15.544																									15.544					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types													Item Number / Title [DODIC]: E73400 / CTG, 120mm Tank TPCSDS-T, M865 [CA69]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2024												Fiscal Year 2025												BALANCE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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	1	2022	ARMY	12.166	.000	12.166	-	-	-	-	-	-	-	-	1.023	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.013	1.0

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E73400 / CTG, 120mm Tank TPCSDS-T, M865 [CA69]															
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2026										Fiscal Year 2027													BALANCE					
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026										Calendar Year 2027																		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP				
COMPLETE ROUND																																			
Prior Years Deliveries: 3801718																																			
	1	2022	ARMY	12.166	12.166	.000																													.000
	2	2022	ARMY	8.111	8.111	.000																													.000
	1	2023	ARMY	19.348	19.348	.000																													.000
	2	2023	ARMY	19.347	19.347	.000																													.000
	1	2024	ARMY	23.316	13.601	9.715																													1.943
	2	2024	ARMY	15.544	9.069	6.475	1.295	1.295	1.295	1.295	1.295	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				.000								

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35					P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types				Item Number / Title [DODIC]: E73400 / CTG, 120mm Tank TPCSDS-T, M865 [CA69]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	NORTHROP GRUMMAN SYSTEMS CORP - PLYMOUTH, MN	500	8,000	24,000	6	6	12	18	6	8	12	20
2	GENERAL DYNAMICS ORD AND TACT - ST PETERSBURG, FL	500	8,000	24,000	6	6	12	18	6	6	12	18

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35							P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types						Item Number / Title [DODIC]: E88105 / CTG, 120MM TANK, HEMP-T, XM1147 [CA71]								
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (<i>Units in Each</i>)				-			-			-			-			-			-		
Gross/Weapon System Cost (<i>\$ in Millions</i>)				57.644			23.359			25.204			22.146			-			22.146		
Less PY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Net Procurement (P-1) (<i>\$ in Millions</i>)				57.644			23.359			25.204			22.146			-			22.146		
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Total Obligation Authority (<i>\$ in Millions</i>)				57.644			23.359			25.204			22.146			-			22.146		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
COMPLETE ROUND ^(†)	7,598.54	4,595	34.915	8,091.07	1,708	13.820	7,817.06	2,809	21.958	7,300.00	2,404	17.549	-	-	-	7,300.00	2,404	17.549			
Subtotal: Recurring Cost	-	-	34.915	-	-	13.820	-	-	21.958	-	-	17.549	-	-	-	-	-	17.549			
Subtotal: Hardware Cost	-	-	34.915	-	-	13.820	-	-	21.958	-	-	17.549	-	-	-	-	-	17.549			
Support - Acceptance Testing Cost																					
Acceptance Test	-	-	0.401	-	-	0.610	-	-	0.200	-	-	0.200	-	-	-	-	-	0.200			
First Article Test	-	-	3.832	-	-	1.331	-	-	0.400	-	-	0.400	-	-	-	-	-	0.400			
Subtotal: Support - Acceptance Testing Cost	-	-	4.233	-	-	1.941	-	-	0.600	-	-	0.600	-	-	-	-	-	0.600			
Support - Product Improvement Cost																					
Reliability	-	-	8.900	-	-	0.476	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Product Improvement Cost	-	-	8.900	-	-	0.476	-	-	-	-	-	-	-	-	-	-	-	-			
Support - Production Engineering Cost																					
Production Engineering	-	-	7.068	-	-	2.733	-	-	2.646	-	-	3.353	-	-	-	-	-	3.353			
Subtotal: Support - Production Engineering Cost	-	-	7.068	-	-	2.733	-	-	2.646	-	-	3.353	-	-	-	-	-	3.353			
Support - Study & Analysis Cost																					
Study & Analysis	-	-	2.528	-	-	4.390	-	-	-	-	-	0.644	-	-	-	-	-	0.644			

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35						P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types							Item Number / Title [DODIC]: E88105 / CTG, 120MM TANK, HEMP-T, XM1147 [CA71]					
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
	Subtotal: Support - Study & Analysis Cost	-	-	2.528	-	-	4.390	-	-	-	-	-	0.644	-	-	-	-	-
Gross/Weapon System Cost	-	-	57.644	-	-	23.359	-	-	25.204	-	-	22.146	-	-	-	-	-	22.146

Remarks:
Unit Cost decreases from FY2022 - FY2024 are the result of the program entering into Full Rate Production (FRP).

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35				P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types				Item Number / Title [DODIC]: E88105 / CTG, 120MM TANK, HEMP-T, XM1147 [CA71]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	NORTHROP GRUMMAN SYSTEMS CORP / PLYMOUTH, MN	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2022	Mar 2023	1,708	8,091.07	Y		
COMPLETE ROUND ^(†)		2023	NORTHROP GRUMMAN SYSTEMS CORP / PLYMOUTH, MN	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2024	2,809	7,817.06	N		
COMPLETE ROUND ^(†)		2024	NORTHROP GRUMMAN SYSTEMS CORP / PLYMOUTH, MN	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	2,404	7,300.00	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E88105 / CTG, 120MM TANK, HEMP-T, XM1147 [CA71]																				
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2022													Fiscal Year 2023													B A L A N C E							
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										
COMPLETE ROUND																																								
Prior Years Deliveries: 4595																																								
	1	2022	ARMY	1,708	0	1,708						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146	142	142	142	142	142	142	710	
	1	2023	ARMY	2,809	0	2,809																										A -	-	-	-	-	-	-	-	2,809
	1	2024	ARMY	2,404	0	2,404																																	2,404	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E88105 / CTG, 120MM TANK, HEMP-T, XM1147 [CA71]																
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2024													Fiscal Year 2025													BALANCE			
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025																
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
COMPLETE ROUND																																				
Prior Years Deliveries: 4595																																				
	1	2022	ARMY	1,708	998	710	142	142	142	142	142																								0	
	1	2023	ARMY	2,809	0	2,809	-	-	-	-	-	235	234	234	234	234	234	234	234	234	234	234														0
	1	2024	ARMY	2,404	0	2,404						A	-	-	-	-	-	-	-	-	-	-	-	-	204	200	200	200	200	200	200	1,000				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E88105 / CTG, 120MM TANK, HEMP-T, XM1147 [CA71]														
Cost Elements (Units in Each)							Fiscal Year 2026													Fiscal Year 2027													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
COMPLETE ROUND																																		
Prior Years Deliveries: 4595																																		
	1	2022	ARMY		1,708	1,708	0																											0
	1	2023	ARMY		2,809	2,809	0																											0
	1	2024	ARMY		2,404	1,404	1,000	200	200	200	200	200																						0
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35					P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types				Item Number / Title [DODIC]: E88105 / CTG, 120MM TANK, HEMP-T, XM1147 [CA71]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	NORTHROP GRUMMAN SYSTEMS CORP - PLYMOUTH, MN	100	500	2,000	6	9	12	21	6	6	12	18

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35						P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types					Item Number / Title [DODIC]: E88106 / CTG, 120mm Tank APFSDS-T, M829A4 [CA64]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				362.729		22.754		40.175		64.841		-		64.841				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				362.729		22.754		40.175		64.841		-		64.841				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				362.729		22.754		40.175		64.841		-		64.841				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	13,987.37	22,366	312.842	18,293.31	360	6.586	20,001.26	1,812	36.242	20,000.00	2,955	59.100	-	-	-	20,000.00	2,955	59.100
Subtotal: Recurring Cost	-	-	312.842	-	-	6.586	-	-	36.242	-	-	59.100	-	-	-	-	-	59.100
Subtotal: Hardware Cost	-	-	312.842	-	-	6.586	-	-	36.242	-	-	59.100	-	-	-	-	-	59.100
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	1.367	-	-	-	-	-	-	-	-	-	-	-	-
First Article Test	-	-	1.179	-	-	2.076	-	-	0.242	-	-	0.469	-	-	-	-	-	0.469
Subtotal: Support - Acceptance Testing Cost	-	-	1.179	-	-	3.443	-	-	0.242	-	-	0.469	-	-	-	-	-	0.469
Support - Product Improvement Cost																		
Reliability	-	-	3.604	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Production Verification Test	-	-	2.010	-	-	1.200	-	-	-	-	-	-	-	-	-	-	-	-
Safety	-	-	-	-	-	4.318	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	5.614	-	-	5.518	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	43.094	-	-	3.287	-	-	3.690	-	-	5.272	-	-	-	-	-	5.272
Subtotal: Support - Production Engineering Cost	-	-	43.094	-	-	3.287	-	-	3.690	-	-	5.272	-	-	-	-	-	5.272

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35							P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types						Item Number / Title [DODIC]: E88106 / CTG, 120mm Tank APFSDS-T, M829A4 [CA64]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	3.920	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Study & Analysis Cost	-	-	-	-	-	3.920	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	362.729	-	-	22.754	-	-	40.175	-	-	64.841	-	-	-	-	-	64.841
Remarks: Previous prime contractor no longer in Depleted Uranium manufacturing business. As a result, FY2023 and FY2024 unit price increases are due to the need to re-establish a new M829A4 vendor for this particular type of manufacturing. (t) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35				P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types					Item Number / Title [DODIC]: E88106 / CTG, 120mm Tank APFSDS-T, M829A4 [CA64]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	NORTHROP GRUMMAN SYSTEMS CORP / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL, NJ	Nov 2021	May 2023	360	18,293.31	Y		
COMPLETE ROUND ^(†)		2023	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Mar 2023	May 2024	1,812	20,001.26	Y		
COMPLETE ROUND ^(†)		2024	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	Mar 2024	May 2025	2,955	20,000.00	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E88106 / CTG, 120mm Tank APFSDS-T, M829A4 [CA64]																				
Cost Elements (Units in Each)							Fiscal Year 2022													Fiscal Year 2023													B A L A N C E							
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										
COMPLETE ROUND																																								
Prior Years Deliveries: 22366																																								
	1	2022	ARMY	360	0	360		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	360			0						
	2	2023	ARMY	1,812	0	1,812																		A	-	-	-	-	-	-	-								1,812	
	2	2024	ARMY	2,955	0	2,955																																		2,955
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E88106 / CTG, 120mm Tank APFSDS-T, M829A4 [CA64]															
Cost Elements (Units in Each)							Fiscal Year 2024													Fiscal Year 2025													BALANCE		
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024							Calendar Year 2025																					
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
COMPLETE ROUND																																			
Prior Years Deliveries: 22366																																			
	1	2022	ARMY	360	360	0																													0
	2	2023	ARMY	1,812	0	1,812	-	-	-	-	-	-	-	151	151	151	151	151	151	151	151	151	151	151	151	151	151						0		
	2	2024	ARMY	2,955	0	2,955						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	249	246	246	246	246	1,722		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E88106 / CTG, 120mm Tank APFSDS-T, M829A4 [CA64]															
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2026													Fiscal Year 2027													BALANCE		
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
COMPLETE ROUND																																			
Prior Years Deliveries: 22366																																			
	1	2022	ARMY	360	360	0																													0
	2	2023	ARMY	1,812	1,812	0																													0
	2	2024	ARMY	2,955	1,233	1,722	246	246	246	246	246	246	246																						0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35					P-1 Line Item Number / Title: 1120E22203 / Cartridges, Tank, 105MM And 120MM, All Types				Item Number / Title [DODIC]: E88106 / CTG, 120mm Tank APFSDS-T, M829A4 [CA64]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	NORTHROP GRUMMAN SYSTEMS CORP - PLYMOUTH, MN	1,000	3,000	5,000	6	6	15	21	6	2	14	16
2	TO BE SELECTED - TBS02	1,000	3,000	5,000	6	6	15	21	6	6	14	20

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition							P-1 Line Item Number / Title: 0530E15101 / Artillery Cartridges, 75MM & 105MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,990.929	39.309	7.647	21.298	-	21.298	21.605	56.591	36.910	55.780	-	3,230.069
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,990.929	39.309	7.647	21.298	-	21.298	21.605	56.591	36.910	55.780	-	3,230.069
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,990.929	39.309	7.647	21.298	-	21.298	21.605	56.591	36.910	55.780	-	3,230.069
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: (E15101) Artillery Cartridges, 75MM And 105MM, All Types This budget line includes Cartridge, Artillery, 75mm & 105mm, All Types. (E21501) CTG, ARTY, 105MM HE, M1 W/O FUZE The 105mm M1 High Explosive (HE) cartridge contains a HE fill and is used primarily for training although some cartridges are expended in combat operations for fragmentation and blast. The cartridge is loaded with an M67 propellant charge, consisting of seven numbered increment bags sewn together in numerical order. Projectile function is dependent upon the fuze used and may function on impact (instantaneous or delay), above ground at a predetermined height or in proximity to the target area. Fuze function detonates the HE projectile filler resulting in projectile fragmentation and blast. Range varies from 3.5 to 11.3 kilometers, depending on the number of charge bags used. The program remanufactures/recapitalizes the remaining unserviceable cartridges through replacement of M67 Prop Charge and Primer at a reduced cost over new production to provide a cost effective training cartridge. This item is Code A, approved for service use.												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition						P-1 Line Item Number / Title: 0530E15101 / Artillery Cartridges, 75MM & 105MM, All Types											
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A									
Line Item MDAP/MAIS Code: N/A																	
Exhibits Schedule					Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total		
Exhibit Type	Title*				Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)		Quantity / Total Cost (Each) / (\$ M)		Quantity / Total Cost (Each) / (\$ M)		Quantity / Total Cost (Each) / (\$ M)		Quantity / Total Cost (Each) / (\$ M)	
P-5	E21501 / CTG, 105mm ARTY HE, M1 w/o Fuze [C445]				P-5a, P-21	A		- / 2,990.929		- / 39.309		- / 7.647		- / 21.298		- / 21.298	
P-40	Total Gross/Weapon System Cost							- / 2,990.929		- / 39.309		- / 7.647		- / 21.298		- / 21.298	
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.																	
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.																	

Justification:
The FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2024 Total Base dollars in the amount of \$21.298 million supports the recapitalization of 67,332 M1 High Explosive cartridges.

(E21501) CTG, ARTY, 105MM HE, M1 W/O FUZE
This program will remanufacture/recapitalize unserviceable rounds in the inventory.
This is a training standard item used in both training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army procurement goals. FY 2024 Total Base dollars in the amount of \$21.298 million supports the procurement of 67,3327 M1 recapitalized cartridges.
TYPE CLASSIFICATION DATE: 1966

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 0530E15101 / Artillery Cartridges, 75MM & 105MM, All Types						Item Number / Title [DODIC]: E21501 / CTG, 105mm ARTY HE, M1 w/ o Fuze [C445]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				2,990.929		39.309		7.647		21.298		-		21.298				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				2,990.929		39.309		7.647		21.298		-		21.298				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				2,990.929		39.309		7.647		21.298		-		21.298				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
XM64 PROPELLANT MP	8.85	816,336	7.224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOAD, ASSEMBLE, PACK (LAP) ^(†)	109.37	340,140	37.202	125.24	130,055	16.288	172.27	21,768	3.750	126.52	67,332	8.519	-	-	-	126.52	67,332	8.519
CONTAINER AMMUNITION FIBER PA55 ^(†)	31.12	34,014	1.058	32.13	9,406	0.302	32.77	2,176	0.071	33.43	6,733	0.225	-	-	-	33.43	6,733	0.225
XM64 PROPELLANT SP	23.78	221,091	5.258	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M67 PROP CHARGE ^(†)	21.33	346,943	7.400	77.44	132,656	10.273	52.61	22,203	1.168	86.00	68,678	5.906	-	-	-	86.00	68,678	5.906
PRIMER PERCUSSION M28B2 ^(†)	19.50	346,943	6.766	20.51	132,656	2.721	20.75	22,203	0.461	25.61	68,678	1.759	-	-	-	25.61	68,678	1.759
BOX, PACKING AMMO ^(†)	40.83	170,071	6.943	56.13	96,066	5.392	68.48	18,067	1.237	69.86	33,666	2.352	-	-	-	69.86	33,666	2.352
WOODEN PALLETS	-	-	-	116.04	7,560	0.877	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	71.852	-	-	35.853	-	-	6.687	-	-	18.761	-	-	-	-	-	18.761
Subtotal: Hardware Cost	-	-	71.852	-	-	35.853	-	-	6.687	-	-	18.761	-	-	-	-	-	18.761
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.567	-	-	0.472	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 0530E15101 / Artillery Cartridges, 75MM & 105MM, All Types					Item Number / Title [DODIC]: E21501 / CTG, 105mm ARTY HE, M1 w/ o Fuze [C445]									
ID Code (A=Service Ready, B=Not Service Ready) : A																			
					MDAP/MAIS Code:														

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Acceptance Testing Cost	-	-	0.567	-	-	0.472	-	-	-	-	-	-	-	-	-	-	-	-
Support - Non-Recurring Support Cost																		
Facilitization	-	-	1.794	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Non-Recurring Support Cost	-	-	1.794	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Insensitive Munitions	-	-	0.340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	0.340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	5.201	-	-	2.983	-	-	0.959	-	-	2.537	-	-	-	-	-	2.537
Subtotal: Support - Production Engineering Cost	-	-	5.201	-	-	2.983	-	-	0.959	-	-	2.537	-	-	-	-	-	2.537
Support - Recapitalization Cost																		
Recapitalization	-	-	2,910.780	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Recapitalization Cost	-	-	2,910.780	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - System Engineering Cost																		
System Engineering	-	-	0.395	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - System Engineering Cost	-	-	0.395	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	2,990.929	-	-	39.309	-	-	7.647	-	-	21.298	-	-	-	-	-	21.298

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37			P-1 Line Item Number / Title: 0530E15101 / Artillery Cartridges, 75MM & 105MM, All Types					Item Number / Title [DODIC]: E21501 / CTG, 105mm ARTY HE, M1 w/ o Fuze [C445]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2022	BLUE GRASS ARMY DEPOT (BGAD) / RICHMOND, KY	PO	PICATINNY ARSENAL, NJ	Jan 2022	Sep 2024	130,055	125.24	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2023	BLUE GRASS ARMY DEPOT (BGAD) / RICHMOND, KY	PO	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2025	21,768	172.27	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2024	BLUE GRASS ARMY DEPOT (BGAD) / RICHMOND, KY	PO	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2026	67,332	126.52	Y		
CONTAINER AMMUNITION FIBER PA55		2022	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	9,406	32.13	Y		
CONTAINER AMMUNITION FIBER PA55		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	2,176	32.77	Y		
CONTAINER AMMUNITION FIBER PA55		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	6,733	33.43	Y		
M67 PROP CHARGE		2022	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Nov 2022	Mar 2024	132,656	145.00	Y		
M67 PROP CHARGE		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Jun 2024	22,203	52.61	Y		
M67 PROP CHARGE		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Jun 2025	68,678	86.00	Y		
PRIMER PERCUSSION M28B2		2022	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	36,719	20.51	Y		
PRIMER PERCUSSION M28B2		2022	DAY & ZIMMERMANN LONE STAR / TEXARKANA, TX	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2022	Aug 2023	95,937	20.51	Y		
PRIMER PERCUSSION M28B2		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	22,203	20.75	Y		
PRIMER PERCUSSION M28B2		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	68,678	25.61	Y		
BOX, PACKING AMMO		2022	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Aug 2022	Feb 2024	18,000	50.81	Y		
BOX, PACKING AMMO		2022	KAIYUH SERVICES, LLC / SPARTA, WI	C / IDIQ	ROCK ISLAND ARSENAL, IL	Aug 2022	Feb 2024	78,066	57.36	Y		
BOX, PACKING AMMO		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2023	Nov 2024	18,067	68.48	Y		
BOX, PACKING AMMO		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2024	Nov 2025	33,666	69.86	Y		
^(†) indicates the presence of a P-21												

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 0530E15101 / Artillery Cartridges, 75MM & 105MM, All Types										Item Number / Title [DODIC]: E21501 / CTG, 105mm ARTY HE, M1 w/ o Fuze [C445]													
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2022													Fiscal Year 2023													B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LOAD, ASSEMBLE, PACK (LAP)																																	
Prior Years Deliveries: 340140																																	
	1	2022	ARMY	130.055	.000	130.055				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130.055	
	1	2023	ARMY	21.768	.000	21.768																		A -	-	-	-	-	-	-	-	21.768	
	1	2024	ARMY	67.332	.000	67.332																										67.332	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 0530E15101 / Artillery Cartridges, 75MM & 105MM, All Types										Item Number / Title [DODIC]: E21501 / CTG, 105mm ARTY HE, M1 w/ o Fuze [C445]													
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2024													Fiscal Year 2025													B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LOAD, ASSEMBLE, PACK (LAP)																																	
Prior Years Deliveries: 340140																																	
	1	2022	ARMY	130.055	.000	130.055	-	-	-	-	-	-	-	-	-	-	-	10.837	10.837	10.837	10.837	10.837	10.837	10.837	10.837	10.837	10.837	10.837	10.837	10.848		.000	
	1	2023	ARMY	21.768	.000	21.768	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.884	10.884						.000	
	1	2024	ARMY	67.332	.000	67.332						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67.332		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37								P-1 Line Item Number / Title: 0530E15101 / Artillery Cartridges, 75MM & 105MM, All Types												Item Number / Title [DODIC]: E21501 / CTG, 105mm ARTY HE, M1 w/ o Fuze [C445]														
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2026												Fiscal Year 2027												B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026												Calendar Year 2027															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
LOAD, ASSEMBLE, PACK (LAP)																																		
Prior Years Deliveries: 340140																																		
	1	2022	ARMY	130.055	130.055	.000																												.000
	1	2023	ARMY	21.768	21.768	.000																												.000
	1	2024	ARMY	67.332	.000	67.332	-	-	-	-	-	11.200	11.200	11.200	11.200	11.200	11.332																	.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 0530E15101 / Artillery Cartridges, 75MM & 105MM, All Types				Item Number / Title [DODIC]: E21501 / CTG, 105mm ARTY HE, M1 w/ o Fuze [C445]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	BLUE GRASS ARMY DEPOT (BGAD) - RICHMOND, KY	10,000	12,000	24,000	6	6	24	30	6	6	24	30

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition							P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A					Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 123												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3,309.958	601.965	210.169	150.839	-	150.839	200.071	204.402	267.658	269.931	-	5,214.993
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,309.958	601.965	210.169	150.839	-	150.839	200.071	204.402	267.658	269.931	-	5,214.993
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,309.958	601.965	210.169	150.839	-	150.839	200.071	204.402	267.658	269.931	-	5,214.993
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: SSN E68604 / PROJ, ARTY, 155MM C-DAEM INCREMENT II is a new start within the ARTILLERY PROJECTILE, 155MM, All Types program in FY 2024 E89500 ARTILLERY PROJECTILE, 155MM ALL TYPES A portion of this budget line is directly aligned to Army Long Range Precision Fire Modernization Priorities. (E21618) PROJ, ARTY, 155mm Extended Range Spotting, M1121 The 155mm Extended Range Spotting, M1121 Artillery Round utilizes projectile bodies generated from an on-going M483 Dual Purpose Improved Conventional Munition (DPICM) demilitarization program and incorporates a more producible White Phosphorous (WP) Bulk-filled Canister with 11.0 lbs of WP that provides smoke spotting capability to a maximum range of 22.5 kilometers providing increased operational effectiveness and improved training. This item is Code A, approved for service use. (E26900) PROJ, ARTY, 155MM VL ILLUM M1124 The 155mm M1124 Visual Light (VL) Illumination Projectile is fired from 155mm howitzers and is used to illuminate the battlefield to a maximum range of 22.5 kilometers. The M1124 utilizes projectile bodies generated from an on-going M483 Dual Purpose Improved Conventional Munition (DPICM) demilitarization program and leverages the payload contained in the M485A2 VL Illuminating Projectile. The M1124 contains a Canister Loading Assembly, Expulsion Charge, and numerous spacers. The Canister Loading Assembly consists of a Visual Light (VL) Illuminating Candle, Main Parachute, Drogue Parachute, Delay, and Secondary Expulsion Charge. The outer shell of the canister is fitted with three longitudinal fins. The projectile uses an M762 series Electronic Time Fuze. When the fuze functions, the primary expelling charge ignites, forcing the drogue parachute and canister assembly against the base plate, rupturing the base pins and expelling the canister and parachute. The drogue parachute then deploys and the canister fins extend. The expelling charge also ignites the delay element in the canister nose. The delay element ignites the secondary expelling charge within the canister after 6.5 - 9 seconds, igniting the candle and expelling the main parachute. With the main parachute open, the illumination candle descends at 15 feet per second and burns for 75 seconds minimum producing approximately 1,000,000 candlepower. This item is Code A, approved for service use. (E26904) PROJ, ARTY, 155MM VL ILLUM M1123 The 155mm M1123 Infra Red (IR) Illumination Projectile is fired from 155mm howitzers and is used with night vision devices to illuminate the battlefield to a maximum range of 22.5 kilometers. The M1123 utilizes projectile bodies generated from an on-going M483 Dual Purpose Improved Conventional Munition (DPICM) demilitarization program and leverages the payload contained in the M1066 IR Illuminating												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition		P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 123		
<p>Projectile. The M1123 contains a Canister Loading Assembly, Expulsion Charge, and numerous spacers. The Canister Loading Assembly consists of a Infra-Red (IR) Illuminating Candle, Main Parachute, Drogue Parachute, Delay, and Secondary Expulsion Charge. The outer shell of the canister is fitted with three longitudinal fins. The projectile uses an M762 series Electronic Time Fuze. When the fuze functions, the primary expelling charge ignites, forcing the drogue parachute and canister assembly against the base plate, rupturing the base pins and expelling the canister and parachute. The drogue parachute then deploys and the canister fins extend. The expelling charge also ignites the delay element in the canister nose. The delay element ignites the secondary expelling charge within the canister after 6.5 - 9 seconds, igniting the candle and expelling the main parachute. With the main parachute open, the illumination candle descends at 15 feet per second and burns for 120 seconds minimum. The M1123 provides infrared battlefield illumination that is 2.4 times larger in diameter than the M1124 Visible Light Illumination Round.</p> <p>This item is Code A, approved for service use.</p>		
<p>(E27001) PROJ, ARTY, 155MM HC SMOKE M116 Series</p> <p>The M116 Series base ejection projectile has a hollow steel casing containing four canisters filled with HC (white) smoke composition. These smoke canisters are stacked within the projectile and separated by felt spacers. Upon fuze function, an expelling charge consisting of 0.34 pounds of black powder flashes through the central tube to ignite the smoke canisters, blow off the base and dispenses all smoke canisters. An effective smoke cloud is produced within 30 seconds, and continues for approximately 1.5 minutes.</p> <p>This item is Code A, approved for service use.</p>		
<p>(E27601) PROJ, ARTY, 155MM HE M107</p> <p>The 155mm M107 is a multi-purpose High Explosive (HE) projectile fired from 155mm howitzers. It is used for blast and effect and fragmentation. The projectile may be loaded with either 14.6 pounds of TNT of 15.4 pounds of composition B explosives.</p> <p>This item is Code A, approved for service use.</p>		
<p>(E27121) - PROJ, ARTY, 155MM HE RAP XM1210 (formerly XM1113 ER)</p> <p>The XM1210 (formerly XM1113 ER) HE, Rocket Assisted Projectile (RAP) will be optimized for 58 caliber guns and allow commanders to provide accurate cannon artillery fires at ranges of 70km and greater with Extended Range Cannon Artillery. The XM1210 incorporates Insensitive Munitions (IM) technologies that reduces vulnerability from unplanned stimuli e.g. fire/heat, shock and impact, while maintaining or exceeding the same level of effectiveness in combat. The 155mm XM1210 has a high fragmentation steel (HF1) body projectile filled with 12 pounds of IMX104 Explosive fill, PBXN-9 Supplementary Charge, and Meltable Fuze Plug. Extended ranges are achieved with 12 pounds of rocket grain propellant. The projectile is optimized with the Long Range Precision Guidance Kit (LR PGK). It is used for conventional fire support for harassment and interdiction, fragmentation and blast effect. The XM1210 projectile is employed against personnel, trucks, electronic surveillance and target acquisition devices, supply points, command and control and communications (C3) installations, and mechanized and armored forces.</p> <p>This item is Code B, not approved for service use.</p>		
<p>(E66501) PROJ, ARTY, 155MM HE RAP XM1113</p> <p>The XM1113 High Explosive (HE), Rocket Assisted Projectile (RAP) is an extended range munition for warfare operations with maximum range of 40 kilometers in 39 caliber weapon systems. The XM1113 incorporates Insensitive Munitions (IM) technologies that reduces vulnerability from unplanned stimuli e.g. fire/heat, shock and impact, while maintaining or exceeding the same level of effectiveness in combat. The 155mm XM1113 has a high fragmentation steel (HF1) body projectile filled with 12 pounds of IMX104 Explosive fill, PBXN-9 Supplementary Charge, and Meltable Fuze Plug. Extended ranges are achieved with 12 pounds of rocket grain propellant. The projectile can use several different conventional fuzes (impact, mechanical time, electronic time and short intrusion proximity) as well as Precision Guidance Kit (PGK). It is used for conventional fire support for harassment and interdiction, fragmentation and blast effect. The XM1113 projectile is employed against personnel, trucks, electronic surveillance and target acquisition devices, supply points, command and control and communications (C3)installations, and mechanized and armored forces.</p> <p>This item is Code B, not approved for service use.</p>		
<p>(E66800) PROJ, ARTY, 155MM HE, M795</p> <p>The M795 High Explosive (HE) Projectile is the primary HE round used for combat operations with maximum range of 22.5 kilometers. The M795 consists of two DODIC variants, the DA54 which incorporates Insensitive Munitions (IM) technologies that reduces vulnerability from unplanned stimuli e.g. fire/heat, shock and impact, while maintaining or exceeding the same level of effectiveness in combat and the D529 which utilizes a lower cost TNT explosive fill primarily used for training. The 155mm M795 has a high fragmentation steel (HF1) body projectile filled with 23.8 pounds of Explosive fill, and Supplementary Charge. The projectile can use several different fuzes (impact, mechanical time, electronic time and short intrusion proximity). It is used for conventional fire support for harassment and interdiction, fragmentation and</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition		P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 123		
<p>blast effect. The M795 projectile is employed against personnel, trucks, electronic surveillance and target acquisition devices, supply points, command and control and communications (C3) installations, and mechanized and armored forces.</p> <p>This item is Code A, approved for service use.</p> <p>(E67800) PROJ, ARTY, 155MM WP SMOKE M825</p> <p>The 155mm WP M825A1 is an improved artillery projectile which produces a ground screening smoke cloud 125-150 meters wide for 5-10 minutes. This smoke screen is produced by burning multiple wedge-shaped pieces of felt saturated with White Phosphorous (WP). The system consists principally of a projectile carrier and canister containing 116 WP felt wedges and a center core burster. Projectile carrier is comprised of an ogive, expulsion charge, modified all steel body, and a one-piece steel dome shaped base. Upon M762/M762A1 Electronic Timing (ET) fuze function, the Expulsion Charge is initiated which simultaneously dispenses the canister and ignites a short delay. This delay provides ample time for canister and projectile body separation prior to functioning of the center core burster which ruptures the canister and disperses 116 WP felt wedges. In less than 45 seconds, a dense and uniform smoke screen is created by burning of the WP. This projectile is shipped with a fusible lifting plug which protects the item during shipping, handling, and storage.</p> <p>This item is Code A, approved for service use.</p> <p>(E67802) PROJ, ARTY, 155MM, HE W/ BASEBLEED M1128</p> <p>The M1128 Extended Range High Explosive (HE) projectile is intended as a replacement for the M795 projectile as the primary HE round for warfare operations utilizing current 39 caliber weapon systems. The M795 projectile is still required as a training projectile. The M1128 will have a maximum range of 30km compared to 22.5km with current M795 and incorporate Insensitive Munitions (IM) technologies that reduces vulnerability from unplanned stimuli e.g. fire/heat, shock and impact, while maintaining or exceeding the same level of effectiveness in combat. The 155mm M1128 consists of a high fragmentation (HF-1) steel body with a streamlined ogive and a base bleed to reduce drag and extend range. The main payload is 20 pounds of IMX-104. The projectile will be compatible with our conventional fuzes (impact, mechanical time, electronic time, proximity) and Precision Guidance Kit. It will be used for conventional fire support for harassment and interdiction, fragmentation, and blast effect. The M1128 can be employed against personnel, trucks, electronic surveillance and target acquisition devices, supply points, command and control and communications (C3) installations, and mechanized and armored forces.</p> <p>This item is Code B and not approved for service use.</p> <p>(E68604) - PROJ, ARTY, 155MM C-DAEM INCREMENT II</p> <p>The Cannon-Delivered Area Effects Munitions (C-DAEM) Dual Purpose Improved Conventional Munition (DPICM) Replacement (formerly known as C-DAEM Increment II) is one of two 155mm projectiles identified to replace the current Department of Defense (DoD) unexploded ordnance (UXO) policy non-compliant stockpile of 155mm DPICM projectiles. It is a 155mm 39 caliber area effects cargo carrying projectile with maximum range of approximately 18km and will provide U.S. ground forces with a capability to effectively engage area (personnel/soft skinned) targets while denying threat forces full operational freedom within the operational area. C-DAEM DPICM Replacement enables multi-domain operations (MDO) in the Penetration, Dis-integration, and Exploitation phases by providing the combatant commander an additional option of ammunition for field artillery fires. C-DAEM DPICM Replacement is also a key mitigating capability for five Extremely High Risk Capability Needs Analysis (CNA) Gaps.</p> <p>This item is Code B, not approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army							Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition					P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 123										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E21618 / PROJ, ARTY, 155mm Extended Range Spotting, M1121 [DA66]	P-5a	A		- / 29.489	- / 7.264	- / -	- / -	- / -	- / -
P-5	E26900 / PROJ, 155mm ARTY VL ILLUM, M485 / M1124 Series [DA57]	P-5a	A		- / 335.224	- / 12.088	- / -	- / -	- / -	- / -
P-5	E26904 / PROJ, 155mm ARTY IR ILLUM, M1066 / M1123 Series [DA56]		A		- / 77.406	- / -	- / 0.026	- / 0.420	- / -	- / 0.420
P-5	E27001 / PROJ, 155mm ARTY Smoke, M116 Series [D506]		A		- / 7.925	- / -	- / 5.802	- / -	- / -	- / -
P-5	E27121 / PROJ, 155MM ARTY HE RAP, M1210 [DZ19]	P-5a	B		- / -	- / -	- / 17.489	- / 2.932	- / -	- / 2.932
P-5	E27601 / PROJ, ARTY, 155MM HE M107		A		- / 1,448.371	- / 28.405	- / -	- / -	- / -	- / -
P-5	E66501 / PROJ, 155mm ARTY HE RAP, XM1113 [DA72]	P-5a, P-21	B		- / 46.972	- / 77.264	- / 68.588	- / 26.688	- / -	- / 26.688
P-5	E66800 / PROJ, 155mm ARTY HE, M795 [D529]	P-5a, P-21	A		- / 1,092.624	- / 436.702	- / 41.199	- / 52.787	- / -	- / 52.787
P-5	E67800 / PROJ, 155mm ARTY WP Smoke, M825 / M825A1 [D528]	P-5a	A		- / 271.947	- / 23.281	- / 23.240	- / -	- / -	- / -
P-5	E67802 / PROJ, 155mm ARTY HE-BB, XM1128 [DA70]	P-5a, P-21	B		- / -	- / 16.961	- / 53.825	- / 65.512	- / -	- / 65.512
P-5	E68604 / PROJ, ARTY, 155MM C-DAEM INCREMENT II		B		- / -	- / -	- / -	- / 2.500	- / -	- / 2.500
P-40	Total Gross/Weapon System Cost				- / 3,309.958	- / 601.965	- / 210.169	- / 150.839	- / -	- / 150.839
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
<p>Justification: The FY 2024 Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>FY 2024 Total Base dollars in the amount of \$150.839 million supports procurement of 55,832 rounds.</p> <p>(E21618) PROJ, ARTY, 155mm Extended Range Spotting, M1121 This is a war reserve item used in combat. There is no FY 2024 budget request. TYPE CLASSIFICATION DATE: 2017</p> <p>(E26900) PROJ, ARTY, 155MM VL ILLUM, M485 / M1124 This is a training standard item used in training and combat. There is no FY 2024 budget request. TYPE CLASSIFICATION DATE: 1970</p>										

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition		P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 123		
<p>(E26904) PROJ, ARTY, 155MM IR ILLUM, M1066 / M1123 This is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$0.420 million supports the continuing engineering efforts of the M1123 program. TYPE CLASSIFICATION DATE: 2009</p> <p>(E27001) PROJ, ARTY, 155MM HC SMOKE M116 Series This is a training standard item used in training and combat. There is no FY 2024 budget request. TYPE CLASSIFICATION DATE: 1978</p> <p>(E27601) PROJ, ARTY, 155MM HE M107 This is a training standard item used in training. There is no FY 2024 budget request. TYPE CLASSIFICATION DATE: 1958</p> <p>(E27121) PROJ, ARTY, 155MM HE RAP M1210 (formerly XM1113 ER) This is a war reserve item used in combat. The FY 2024 request is Urgent Material Release (UMR) deliveries supporting the Extended Range Cannon Artillery (ERCA) Increased Range Self-Propelled Howitzer (SPH). FY 2024 Total Base dollars in the amount of \$2.932 million supports the procurement of 98 rounds. TYPE CLASSIFICATION: Planned FY 2026</p> <p>(E66501) PROJ, ARTY, 155MM HE RAP XM1113 This is a war reserve item used in combat. The FY 2024 request builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$26.688 million supports the procurement of 1,829 rounds. TYPE CLASSIFICATION: Planned FY 2024</p> <p>(E66800) PROJ, ARTY, 155MM HE, M795 This item is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$52.787 million supports the procurement of 35,804 rounds. TYPE CLASSIFICATION DATE: 1982</p> <p>(E67800) PROJ, ARTY, 155MM WP SMOKE M825 This is a training standard item used in training and combat. There is no FY 2024 budget request. TYPE CLASSIFICATION DATE: 1982</p> <p>(E67802) PROJ, ARTY, 155MM, HE W/ BASEBLED M1128 This is a war reserve item used in combat. The FY 2024 request builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$65.512 million supports the procurement of 16,950 rounds. This program plans to pursue Multi-Year Procurement for FY 2023 through FY 2027 as authorized in the FY 2023 National Defense Authorization Act. TYPE CLASSIFICATION DATE: 2022</p> <p>(E68604) PROJ, ARTY, 155mm C-DAEM INCREMENT II</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition		P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 123		
<p>This is a war reserve item used in combat. The FY 2024 request directly supports the Army's requirement to fulfill the Office of Secretary of Defense (OSD) directive to replace Dual Purpose Improved Conventional Munition (DPICM) stockpile. FY 2024 Total Base dollars in the amount of \$2.500 million will support the initiation of pre-contract award activities and engineering efforts required to achieve Type Classification by FY 2025. E68604 is a New Start in FY 2024.</p> <p>TYPE CLASSIFICATION: Planned FY 2025</p>		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E21618 / PROJ, ARTY, 155mm Extended Range Spotting, M1121 [DA66]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				29.489		7.264		-		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				29.489		7.264		-		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				29.489		7.264		-		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	492.79	9,983	4.919	553.51	4,000	2.214	-	-	-	-	-	-	-	-	-	-	-	-
*WOODEN PALLET, IMX	141.07	648	0.091	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MELTABLE FUZE PLUG ^(†)	7.77	10,183	0.079	8.57	4,080	0.035	-	-	-	-	-	-	-	-	-	-	-	-
CANNISTER METAL PART SET ^(†)	675.35	10,183	6.877	588.08	4,080	2.399	-	-	-	-	-	-	-	-	-	-	-	-
MODIFIED SUPPLEMENTAL CHARGE, PBXN9 ^(†)	50.83	10,183	0.518	81.13	4,080	0.331	-	-	-	-	-	-	-	-	-	-	-	-
WOODEN PALLET, IMX ^(†)	135.59	650	0.088	143.89	520	0.075	-	-	-	-	-	-	-	-	-	-	-	-
MODIFIED PROJECTILE BODY ^(†)	228.02	10,183	2.322	236.49	4,080	0.965	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	14.895	-	-	6.019	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	14.895	-	-	6.019	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	2.264	-	-	0.036	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types					Item Number / Title [DODIC]: E21618 / PROJ, ARTY, 155mm Extended Range Spotting, M1121 [DA66]									
ID Code (A=Service Ready, B=Not Service Ready) : A																			
					MDAP/MAIS Code:														

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Acceptance Testing Cost	-	-	2.264	-	-	0.036	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	12.330	-	-	1.209	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	12.330	-	-	1.209	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	29.489	-	-	7.264	-	-	-	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types				Item Number / Title [DODIC]: E21618 / PROJ, ARTY, 155mm Extended Range Spotting, M1121 [DA66]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Feb 2022	Feb 2025	4,000	553.51	Y		
MELTABLE FUZE PLUG		2022	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Apr 2023	Oct 2024	4,080	8.57	Y		
CANNISTER METAL PART SET		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	4,080	588.08	Y		
MODIFIED SUPPLEMENTAL CHARGE, PBXN9		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	4,080	81.13	Y		
WOODEN PALLET, IMX		2022	KNOX CNTY ASSOC REMARKABLE / VINCENNES, IN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Dec 2022	Dec 2023	520	143.89	Y		
MODIFIED PROJECTILE BODY		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	ROCK ISLAND ARSENAL, IL	Feb 2022	Aug 2023	4,080	236.49	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E26900 / PROJ, 155mm ARTY VL ILLUM, M485 / M1124 Series [DA57]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				335.224		12.088		-		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				335.224		12.088		-		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				335.224		12.088		-		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	328.74	29,288	9.628	448.05	6,435	2.883	-	-	-	-	-	-	-	-	-	-	-	-
DELAY ELEMENT, 155MM ILLUM ^(†)	77.11	29,873	2.303	108.77	6,564	0.714	-	-	-	-	-	-	-	-	-	-	-	-
M10 EXPULSION CHARGE ASSEMBLY ^(†)	23.16	29,873	0.692	30.32	6,564	0.199	-	-	-	-	-	-	-	-	-	-	-	-
PARACHUTE MAIN, 155MM ILLUM ^(†)	39.74	29,873	1.187	42.15	6,564	0.277	-	-	-	-	-	-	-	-	-	-	-	-
PARACHUTE MAIN SUPPORTS, 155MM ILLUM ^(†)	5.29	119,495	0.632	9.82	26,255	0.258	-	-	-	-	-	-	-	-	-	-	-	-
PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM ^(†)	17.30	29,873	0.517	20.07	6,564	0.132	-	-	-	-	-	-	-	-	-	-	-	-
VL ILLUM CANNISTER ^(†)	371.42	29,873	11.095	437.34	6,564	2.871	-	-	-	-	-	-	-	-	-	-	-	-
CANISTER MPTS ASSY, 155MM ILLUM ^(†)	65.00	29,873	1.942	72.10	6,564	0.473	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37							P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E26900 / PROJ, 155mm ARTY VL ILLUM, M485 / M1124 Series [DA57]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
*WOODEN PALLET, IMX	141.07	956	0.135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANISTER BASE ASSY, 155MM ILLUM ^(†)	23.86	29,873	0.713	27.10	6,564	0.178	-	-	-	-	-	-	-	-	-	-	-	-
METAL PARTS SETS ^(†)	331.10	29,592	9.798	331.64	6,564	2.177	-	-	-	-	-	-	-	-	-	-	-	-
DOWNLOAD, CLEAN AND INSPECT ^(†)	87.35	30,753	2.686	131.55	6,628	0.872	-	-	-	-	-	-	-	-	-	-	-	-
WOODEN PALLET, IMX ^(†)	111.98	2,851	0.319	143.88	837	0.120	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	41.647	-	-	11.153	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	41.647	-	-	11.153	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.806	-	-	0.332	-	-	-	-	-	-	-	-	-	-	-	-
First Article Test	-	-	-	-	-	0.010	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.806	-	-	0.342	-	-	-	-	-	-	-	-	-	-	-	-
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-0.135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Government Furnished Materials Cost	-	-	-0.135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Reliability	-	-	0.389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	0.389	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	292.516	-	-	0.593	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	292.516	-	-	0.593	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	335.224	-	-	12.088	-	-	-	-	-	-	-	-	-	-	-	-
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types				Item Number / Title [DODIC]: E26900 / PROJ, 155mm ARTY VL ILLUM, M485 / M1124 Series [DA57]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Feb 2022	Feb 2024	6,435	448.05	Y		
DELAY ELEMENT, 155MM ILLUM		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	6,564	108.77	Y		
M10 EXPULSION CHARGE ASSEMBLY		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	6,564	30.32	Y		
PARACHUTE MAIN, 155MM ILLUM		2022	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	May 2023	Jan 2024	6,564	42.15	Y		
PARACHUTE MAIN SUPPORTS, 155MM ILUM		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	26,255	9.82	Y		
PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM		2022	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jan 2023	Jan 2024	6,564	20.07	Y		
VL ILLUM CANNISTER		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	6,564	437.34	Y		
CANISTER MPTS ASSY, 155MM ILLUM		2022	WOODLAWN MANUFACTURING INC / MARSHALL, TX	Option / IDIQ	PICATINNY ARSENAL, NJ	Dec 2021	Dec 2022	6,564	72.10	Y		
CANISTER BASE ASSY, 155MM ILLUM		2022	WOODLAWN MANUFACTURING INC / MARSHALL, TX	Option / IDIQ	PICATINNY ARSENAL, NJ	Dec 2021	Dec 2022	6,564	27.10	Y		
METAL PARTS SETS		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	6,564	331.64	Y		
DOWNLOAD, CLEAN AND INSPECT		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	6,628	131.55	Y		
WOODEN PALLET, IMX		2022	KNOX CNTY ASSOC REMARKABLE / VINCENNES, IN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2022	Mar 2023	837	143.88	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E26904 / PROJ, 155mm ARTY IR ILLUM, M1066 / M1123 Series [DA56]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				77.406		-		0.026		0.420		-		0.420				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				77.406		-		0.026		0.420		-		0.420				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				77.406		-		0.026		0.420		-		0.420				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	326.82	8,858	2.895	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
METAL PARTS SETS	278.94	8,858	2.471	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANISTER BASE ASSY, 155MM ILLUM	24.44	9,035	0.221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANISTER MPTS ASSY, 155MM ILLUM	59.71	9,035	0.539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IR ILLUM CANNISTER	338.12	9,035	3.055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM	17.55	9,035	0.159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PARACHUTE MAIN SUPPORTS, 155MM ILUM	5.15	36,141	0.186	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PARACHUTE MAIN, 155MM ILLUM	38.94	9,035	0.352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M10 EXPULSION CHARGE ASSEMBLY	17.12	9,035	0.155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DELAY ELEMENT, 155MM ILLUM	80.27	9,035	0.725	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E26904 / PROJ, 155mm ARTY IR ILLUM, M1066 / M1123 Series [DA56]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
WOODEN PALLET, IMX	95.58	1,152	0.110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	10.868	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware Cost	-	-	10.868	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Support - Acceptance Testing Cost																			
Acceptance Test	-	-	0.124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Acceptance Testing Cost	-	-	0.124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Support - Production Engineering Cost																			
Production Engineering	-	-	66.414	-	-	-	-	-	0.026	-	-	0.420	-	-	-	-	-	0.420	
Subtotal: Support - Production Engineering Cost	-	-	66.414	-	-	-	-	-	0.026	-	-	0.420	-	-	-	-	-	0.420	
Gross/Weapon System Cost	-	-	77.406	-	-	-	-	-	0.026	-	-	0.420	-	-	-	-	-	0.420	

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E27001 / PROJ, 155mm ARTY Smoke, M116 Series [D506]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				7.925		-		5.802		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				7.925		-		5.802		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				7.925		-		5.802		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	980.68	1,050	1.030	-	-	-	1,046.72	2,138	2.238	-	-	-	-	-	-	-	-	-
155MM M1 - M2 SMOKE CANNISTER ASSEMBLY	823.00	1,082	0.890	-	-	-	605.66	2,180	1.320	-	-	-	-	-	-	-	-	-
CASE,PROJECTILE	393.95	1,071	0.422	-	-	-	417.99	2,180	0.911	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	2.342	-	-	-	-	-	4.469	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	2.342	-	-	-	-	-	4.469	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.250	-	-	-	-	-	0.150	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.250	-	-	-	-	-	0.150	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	5.332	-	-	-	-	-	1.182	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	5.332	-	-	-	-	-	1.182	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	7.925	-	-	-	-	-	5.802	-	-	-	-	-	-	-	-	-
Remarks: Planned acquisition of this item involves long lead time procurement with a Depot/Arsenal.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types	Item Number / Title [DODIC]: E27001 / PROJ, 155mm ARTY Smoke, M116 Series [D506]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37							P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E27121 / PROJ, 155MM ARTY HE RAP, M1210 [DZ19]					
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-		-		17.489		2.932		-		2.932				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				-		-		17.489		2.932		-		2.932				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				-		-		17.489		2.932		-		2.932				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	-	-	-	15,442.57	1,000	15.443	11,840.00	98	1.160	-	-	-	11,840.00	98	1.160
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	15.443	-	-	1.160	-	-	-	-	-	1.160
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	15.443	-	-	1.160	-	-	-	-	-	1.160
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.525	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	0.525	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	1.521	-	-	1.772	-	-	-	-	-	1.772
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	1.521	-	-	1.772	-	-	-	-	-	1.772
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	17.489	-	-	2.932	-	-	-	-	-	2.932
Remarks: The M1210 is the new nomenclature for the XM1113ER.																		
^(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types				Item Number / Title [DODIC]: E27121 / PROJ, 155MM ARTY HE RAP, M1210 [DZ19]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2024	TO BE SELECTED / TBS01	C / CPFF	Picatinny Arsenal, NJ	May 2024	May 2025	98	11,840.00	N		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E27601 / PROJ, ARTY, 155MM HE M107						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				1,448.371		28.405		-		-		-		-				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				1,448.371		28.405		-		-		-		-				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				1,448.371		28.405		-		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	-	-	-	688.22	36,000	24.776	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	24.776	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	-	-	-	24.776	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	1.579	-	-	-	-	-	-	-	-	-	-	-	-
First Article Test	-	-	-	-	-	1.400	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	2.979	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	1,448.371	-	-	0.650	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	1,448.371	-	-	0.650	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	1,448.371	-	-	28.405	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E66501 / PROJ, 155mm ARTY HE RAP, XM1113 [DA72]						
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				46.972		77.264		68.588		26.688		-		26.688				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				46.972		77.264		68.588		26.688		-		26.688				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				46.972		77.264		68.588		26.688		-		26.688				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND XM1113 ^(†)	12,857.00	897	11.533	10,070.73	4,492	45.238	9,709.03	4,698	45.613	11,579.00	1,829	21.178	-	-	-	11,579.00	1,829	21.178
COMPLETE ROUND XM1113 ER OA ^(†)	-	-	-	14,484.00	540	7.821	-	-	-	-	-	-	-	-	-	-	-	-
COMPLETE ROUND XM1113 ER UMR ^(†)	-	-	-	14,484.00	506	7.329	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	11.533	-	-	60.388	-	-	45.613	-	-	21.178	-	-	-	-	-	21.178
Non Recurring Cost																		
Test Hardware	-	-	25.169	-	-	6.790	-	-	4.175	-	-	0.810	-	-	-	-	-	0.810
Subtotal: Non Recurring Cost	-	-	25.169	-	-	6.790	-	-	4.175	-	-	0.810	-	-	-	-	-	0.810
Subtotal: Hardware Cost	-	-	36.702	-	-	67.178	-	-	49.788	-	-	21.988	-	-	-	-	-	21.988
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	1.386	-	-	2.595	-	-	0.800	-	-	1.200	-	-	-	-	-	1.200
Subtotal: Support - Acceptance Testing Cost	-	-	1.386	-	-	2.595	-	-	0.800	-	-	1.200	-	-	-	-	-	1.200
Support - Fielding Cost																		
Fielding	-	-	0.199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Fielding Cost	-	-	0.199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37							P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E66501 / PROJ, 155mm ARTY HE RAP, XM1113 [DA72]					
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Non-Recurring Support Cost																		
Facilitization	-	-	-	-	-	-	-	-	15.000	-	-	-	-	-	-	-	-	-
Subtotal: Support - Non-Recurring Support Cost	-	-	-	-	-	-	-	-	15.000	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	7.151	-	-	6.087	-	-	3.000	-	-	3.500	-	-	-	-	-	3.500
Subtotal: Support - Production Engineering Cost	-	-	7.151	-	-	6.087	-	-	3.000	-	-	3.500	-	-	-	-	-	3.500
Support - System Engineering Cost																		
Weapons Fire Control	-	-	1.534	-	-	1.404	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - System Engineering Cost	-	-	1.534	-	-	1.404	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	46.972	-	-	77.264	-	-	68.588	-	-	26.688	-	-	-	-	-	26.688

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types					Item Number / Title [DODIC]: E66501 / PROJ, 155mm ARTY HE RAP, XM1113 [DA72]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND XM1113 ^(†)		2022	GDOTS -SEATTLE ** / SEATTLE, WA.*	SS / CPFF	PICATINNY ARSENAL, NJ	Feb 2022	Feb 2024	4,492	10,070.73	N	Aug 2021	
COMPLETE ROUND XM1113 ^(†)		2023	TO BE SELECTED / TBS01	C / CPIF	PICATINNY ARSENAL, NJ	Aug 2023	Aug 2025	4,698	9,709.03	N		
COMPLETE ROUND XM1113 ^(†)		2024	TO BE SELECTED / TBS01	C / CPIF	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2026	1,829	11,579.00	Y		
COMPLETE ROUND XM1113 ER OA		2022	GDOTS - SEATTLE / SEATTLE, WA	SS / CPFF	PICATINNY ARSENAL, NJ	Jan 2022	Jul 2023	540	14,484.00	N	Aug 2021	
COMPLETE ROUND XM1113 ER UMR		2022	GDOTS - SEATTLE * / SEATTLE, WA.	SS / CPIF	PICATINNY ARSENAL, NJ	Feb 2022	Feb 2024	506	14,484.00	N	Aug 2021	

(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																		
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types														Item Number / Title [DODIC]: E66501 / PROJ, 155mm ARTY HE RAP, XM1113 [DA72]													
Cost Elements (Units in Each)								Fiscal Year 2022														Fiscal Year 2023														B A L A N C E	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
COMPLETE ROUND XM1113																																					
Prior Years Deliveries: 897																																					
	2	2022	ARMY	4,492	0	4,492				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,492					
	1	2023	ARMY	4,698	0	4,698																							A -	-	4,698						
	1	2024	ARMY	1,829	0	1,829																										1,829					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types										Item Number / Title [DODIC]: E66501 / PROJ, 155mm ARTY HE RAP, XM1113 [DA72]													
Cost Elements (Units in Each)								Fiscal Year 2024												Fiscal Year 2025												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
COMPLETE ROUND XM1113																																	
Prior Years Deliveries: 897																																	
	2	2022	ARMY	4,492	0	4,492	-	-	-	-	700	700																					3,092
	1	2023	ARMY	4,698	0	4,698	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,000	1,000	2,698		
	1	2024	ARMY	1,829	0	1,829						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,829		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types										Item Number / Title [DODIC]: E66501 / PROJ, 155mm ARTY HE RAP, XM1113 [DA72]														
Cost Elements (Units in Each)							Fiscal Year 2026													Fiscal Year 2027													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
COMPLETE ROUND XM1113																																		
Prior Years Deliveries: 897																																		
	2	2022	ARMY	4,492	1,400	3,092																												3,092
	1	2023	ARMY	4,698	2,000	2,698	1,000	1,000	698																									0
	1	2024	ARMY	1,829	0	1,829	-	-	-	-	-	1,000	829																				0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types				Item Number / Title [DODIC]: E66501 / PROJ, 155mm ARTY HE RAP, XM1113 [DA72]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	500	1,000	1,500	6	6	24	30	6	6	24	30
2	GDOTS -SEATTLE ** - SEATTLE, WA.*	500	1,000	1,500	0	0	0	0	0	0	0	0

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37							P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E66800 / PROJ, 155mm ARTY HE, M795 [D529]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (<i>Units in Each</i>)				-			-			-			-			-			-		
Gross/Weapon System Cost (<i>\$ in Millions</i>)				1,092.624			436.702			41.199			52.787			-			52.787		
Less PY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Net Procurement (P-1) (<i>\$ in Millions</i>)				1,092.624			436.702			41.199			52.787			-			52.787		
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Total Obligation Authority (<i>\$ in Millions</i>)				1,092.624			436.702			41.199			52.787			-			52.787		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
LOAD, ASSEMBLE, PACK (LAP) ^(†)	270.78	831,911	225.268	357.83	241,781	86.516	280.50	47,692	13.378	378.98	35,804	13.569	-	-	-	378.98	35,804	13.569			
155MM METAL BODY PARTS ^(†)	395.37	395,501	156.371	459.38	246,616	113.290	482.86	48,646	23.489	930.00	36,520	33.964	-	-	-	930.00	36,520	33.964			
SUPPLEMENTARY CHARGE PROJECTILE ^(†)	12.13	395,500	4.798	11.60	246,616	2.861	12.25	48,646	0.596	12.49	36,520	0.456	-	-	-	12.49	36,520	0.456			
*SUPPLEMENTARY CHARGE PROJECTILE ^(†)	-	-	-	12.01	36,720	0.441	-	-	-	-	-	-	-	-	-	-	-	-			
WOODEN PALLETS	124.42	57,439	7.146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Recurring Cost	-	-	393.584	-	-	203.109	-	-	37.463	-	-	47.989	-	-	-	-	-	47.989			
Subtotal: Hardware Cost	-	-	393.584	-	-	203.109	-	-	37.463	-	-	47.989	-	-	-	-	-	47.989			
Support - Acceptance Testing Cost																					
Acceptance Test	-	-	1.290	-	-	0.820	-	-	0.288	-	-	0.161	-	-	-	-	-	0.161			
Subtotal: Support - Acceptance Testing Cost	-	-	1.290	-	-	0.820	-	-	0.288	-	-	0.161	-	-	-	-	-	0.161			
Support - Government Furnished Materials Cost																					
Government Furnished Materials	-	-	-	-	-	-0.441	-	-	-	-	-	-	-	-	-	-	-	-			

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37							P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E66800 / PROJ, 155mm ARTY HE, M795 [D529]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Government Furnished Materials Cost	-	-	-	-	-	-0.441	-	-	-	-	-	-	-	-	-	-	-	-
Support - Industrial Facilities Cost																		
Iowa Army Ammunition Plant (AAP)	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Industrial Facilities Cost	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Non-Recurring Support Cost																		
Facilitization	-	-	0.876	-	-	230.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Non-Recurring Support Cost	-	-	0.876	-	-	230.000	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	686.041	-	-	3.215	-	-	3.448	-	-	4.637	-	-	-	-	-	4.637
Subtotal: Support - Production Engineering Cost	-	-	686.041	-	-	3.215	-	-	3.448	-	-	4.637	-	-	-	-	-	4.637
Support - System Engineering Cost																		
Weapons Fire Control	-	-	0.833	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - System Engineering Cost	-	-	0.833	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	1,092.624	-	-	436.702	-	-	41.199	-	-	52.787	-	-	-	-	-	52.787

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types					Item Number / Title [DODIC]: E66800 / PROJ, 155mm ARTY HE, M795 [D529]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2022	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jul 2022	Jul 2025	241,781	357.83	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2023	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	May 2023	May 2026	47,692	280.50	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2024	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / IDIQ	ROCK ISLAND ARSENAL, IL	May 2024	May 2027	35,804	378.98	Y		
155MM METAL BODY PARTS		2022	GENERAL DYNAMICS ORD AND TACT / SCRANTON, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Jun 2022	Dec 2023	246,616	459.38	Y		
155MM METAL BODY PARTS		2023	GENERAL DYNAMICS ORD AND TACT / SCRANTON, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Aug 2023	Feb 2025	48,646	482.86	Y		
155MM METAL BODY PARTS		2024	GENERAL DYNAMICS ORD AND TACT / SCRANTON, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Aug 2024	Feb 2026	36,520	930.00	Y		
SUPPLEMENTARY CHARGE PROJECTILE		2022	ACCURATE ENERGETIC SYSTEMS, / MC EWEN, TN	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	246,616	11.60	Y		
SUPPLEMENTARY CHARGE PROJECTILE		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	48,646	12.25	Y		
SUPPLEMENTARY CHARGE PROJECTILE		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	36,520	12.49	Y		
*SUPPLEMENTARY CHARGE PROJECTILE		2022	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE,	GFM	ROCK ISLAND ARSENAL, IL	Feb 2023	Aug 2024	36,720	12.01	N		
^(†) indicates the presence of a P-21 Remarks: Pallets are procured as part of the Metal Parts Contract Award.												

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37								P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types												Item Number / Title [DODIC]: E66800 / PROJ, 155mm ARTY HE, M795 [D529]																								
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2022												Fiscal Year 2023												B A L A N C E													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P														
LOAD, ASSEMBLE, PACK (LAP)																																												
Prior Years Deliveries: 831911																																												
	1	2022	ARMY	241.781	.000	241.781													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	241.781							
	1	2022	MC ^(†)	15.304	.000	15.304													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.304							
	1	2022	Total	257.085	.000	257.085													-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	257.085							
	1	2023	ARMY	47.692	.000	47.692																									A -	-	-	-	-	-	-	-	-	-	-	-	-	47.692
	1	2024	ARMY	35.804	.000	35.804																																					35.804	
	1	2024	MC ^(†)	7.005	.000	7.005																																					7.005	
	1	2024	Total	42.809	.000	42.809																																					42.809	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P														

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types													Item Number / Title [DODIC]: E66800 / PROJ, 155mm ARTY HE, M795 [D529]											
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2024													Fiscal Year 2025													B A L A N C E	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
LOAD, ASSEMBLE, PACK (LAP)																																		
Prior Years Deliveries: 831911																																		
	1	2022	ARMY	241.781	.000	241.781	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.288	6.279	6.279	222.935		
	1	2022	MC ^(†)	15.304	.000	15.304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.213	3.213	2.447	6.431		
	1	2022	Total	257.085	.000	257.085	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.501	9.492	8.726	229.366		
	1	2023	ARMY	47.692	.000	47.692	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47.692		
	1	2024	ARMY	35.804	.000	35.804								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35.804		
	1	2024	MC ^(†)	7.005	.000	7.005								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.005	
	1	2024	Total	42.809	.000	42.809								-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42.809
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types										Item Number / Title [DODIC]: E66800 / PROJ, 155mm ARTY HE, M795 [D529]																
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2026													Fiscal Year 2027													B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 5	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
LOAD, ASSEMBLE, PACK (LAP)																																				
Prior Years Deliveries: 831911																																				
	1	2022	ARMY	241.781	18.846	222.935	6.279	6.279	24.000	24.000	24.000	24.000	11.826	17.718	17.718	17.718	17.718	17.718	13.961																.000	
	1	2022	MC (†)	15.304	8.873	6.431	3.218	3.213	-	-	-	-	-	-	-	-	-	-	-																.000	
	1	2022	Total	257.085	27.719	229.366	9.497	9.492	24.000	24.000	24.000	24.000	11.826	17.718	17.718	17.718	17.718	17.718	13.961	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
	1	2023	ARMY	47.692	.000	47.692	-	-	-	-	-	-	-	2.000	2.000	2.000	2.000	2.000	2.000	2.000	6.738	6.738	6.738	6.738	6.740											.000
	1	2024	ARMY	35.804	.000	35.804	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.984	2.984	2.984	2.984	2.984	20.884					
	1	2024	MC (†)	7.005	.000	7.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.583	.583	.583	.583	.583	4.090					
	1	2024	Total	42.809	.000	42.809	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.567	3.567	3.567	3.567	3.567	24.974					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37							P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types												Item Number / Title [DODIC]: E66800 / PROJ, 155mm ARTY HE, M795 [D529]														
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2028												Fiscal Year 2029												BALANCE		
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2027	BAL DUE AS OF 1 OCT	Calendar Year 2028												Calendar Year 2029														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
LOAD, ASSEMBLE, PACK (LAP)																																	
Prior Years Deliveries: 831911																																	
	1	2022	ARMY	241.781	241.781	.000																											.000
	1	2022	MC ^(†)	15.304	15.304	.000																											.000
	1	2022	Total	257.085	257.085	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
	1	2023	ARMY	47.692	47.692	.000																											.000
	1	2024	ARMY	35.804	14.920	20.884	2.984	2.984	2.984	2.984	2.984	2.984	2.980																			.000	
	1	2024	MC ^(†)	7.005	2.915	4.090	.583	.583	.583	.583	.583	.583	.592																			.000	
	1	2024	Total	42.809	17.835	24.974	3.567	3.567	3.567	3.567	3.567	3.567	3.572	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types				Item Number / Title [DODIC]: E66800 / PROJ, 155mm ARTY HE, M795 [D529]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	AMERICAN ORDNANCE LLC (IAAP) - MIDDLETOWN, IA	8,100	16,000	24,000	12	12	36	48	8	8	36	44

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E67800 / PROJ, 155mm ARTY WP Smoke, M825 / M825A1 [D528]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				271.947		23.281		23.240		-		-		-				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				271.947		23.281		23.240		-		-		-				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				271.947		23.281		23.240		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	551.43	10,892	6.006	648.82	7,716	5.006	661.80	7,867	5.206	-	-	-	-	-	-	-	-	-
S & A MODULE ^(†)	-	-	-	-	-	-	31.83	8,024	0.255	-	-	-	-	-	-	-	-	-
*S & A MODULE ^(†)	30.61	11,110	0.340	31.21	8,102	0.253	-	-	-	-	-	-	-	-	-	-	-	-
DELAY ELEMENT ^(†)	105.06	11,110	1.167	106.87	8,102	0.866	109.30	8,024	0.877	-	-	-	-	-	-	-	-	-
155MM SMOKE CANNISTER ^(†)	865.30	11,110	9.613	863.19	8,102	6.994	880.46	8,024	7.065	-	-	-	-	-	-	-	-	-
RETAINERS ^(†)	9.24	11,110	0.103	25.51	8,102	0.207	26.02	8,024	0.209	-	-	-	-	-	-	-	-	-
PROJ BODY 155MM M825 ^(†)	655.13	11,110	7.278	682.07	9,591	6.542	695.23	8,024	5.579	-	-	-	-	-	-	-	-	-
CHARGE ASSEMBLY,EXPULSION ^(†)	24.41	11,110	0.271	22.90	8,102	0.186	25.40	8,024	0.204	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	24.779	-	-	20.053	-	-	19.395	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	24.779	-	-	20.053	-	-	19.395	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	245.069	-	-	0.124	-	-	0.176	-	-	-	-	-	-	-	-	-
First Article Test	-	-	-	-	-	0.472	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	245.069	-	-	0.596	-	-	0.176	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E67800 / PROJ, 155mm ARTY WP Smoke, M825 / M825A1 [D528]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	-	-	-	0.018	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Engineering Change Proposals Cost	-	-	-	-	-	0.018	-	-	-	-	-	-	-	-	-	-	-	-
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	-0.340	-	-	-0.253	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Government Furnished Materials Cost	-	-	-0.340	-	-	-0.253	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	2.439	-	-	2.867	-	-	3.669	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	2.439	-	-	2.867	-	-	3.669	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	271.947	-	-	23.281	-	-	23.240	-	-	-	-	-	-	-	-	-

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types					Item Number / Title [DODIC]: E67800 / PROJ, 155mm ARTY WP Smoke, M825 / M825A1 [D528]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Feb 2022	Feb 2025	7,716	648.82	Y		
LOAD, ASSEMBLE, PACK (LAP)		2023	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	PICATINNY ARSENAL, NJ	Feb 2023	Feb 2026	7,867	661.80	Y		
S & A MODULE		2023	ACTION MANUFACTURING COMPANY / BRISTOL, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Sep 2024	8,024	31.83	Y		
*S & A MODULE		2022	GOVERNMENT FURNISHED MATERIAL / STOCK ISSUE,	GFM	PICATINNY ARSENAL, NJ	Mar 2022	Sep 2023	8,102	31.21	N		
DELAY ELEMENT		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	8,102	106.87	Y		
DELAY ELEMENT		2023	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2023	Feb 2025	8,024	109.30	Y		
155MM SMOKE CANNISTER		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	8,102	863.19	Y		
155MM SMOKE CANNISTER		2023	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2023	Feb 2025	8,024	880.46	Y		
RETAINERS		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	8,102	25.51	Y		
RETAINERS		2023	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2023	Feb 2025	8,024	26.02	Y		
PROJ BODY 155MM M825		2022	IMT DEFENSE CORP / WESTERVILLE, OH	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jan 2022	Jul 2023	9,591	682.07	Y		
PROJ BODY 155MM M825		2023	IMT DEFENSE CORP / WESTERVILLE, OH	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	8,024	695.23	Y		
CHARGE ASSEMBLY,EXPULSION		2022	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2022	Aug 2023	8,102	22.90	Y		
CHARGE ASSEMBLY,EXPULSION		2023	CRANE ARMY AMMO ACTIVITY / CRANE, IN	PO	PICATINNY ARSENAL, NJ	Feb 2023	Feb 2025	8,024	25.40	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37							P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E67802 / PROJ, 155mm ARTY HE-BB, XM1128 [DA70]								
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				-			16.961			53.825			65.512			-			65.512		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				-			16.961			53.825			65.512			-			65.512		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				-			16.961			53.825			65.512			-			65.512		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	-	1,654.78	3,164	5.236	1,623.14	7,204	11.693	1,541.51	16,950	26.129	-	-	-	1,541.51	16,950	26.129			
METAL PART, M1128 ^(†)	-	-	-	1,185.62	3,575	4.239	1,209.82	7,564	9.151	1,234.21	17,797	21.965	-	-	-	1,234.21	17,797	21.965			
EXPLOSIVE FILL IMX-104 ^(†)	-	-	-	24.89	82,264	2.048	24.15	187,304	4.523	26.13	440,700	11.515	-	-	-	26.13	440,700	11.515			
WOODEN PALLET, IMX ^(†)	-	-	-	143.89	411	0.059	146.77	937	0.138	149.69	2,203	0.330	-	-	-	149.69	2,203	0.330			
MELTABLE FUZE PLUG ^(†)	-	-	-	8.57	3,227	0.028	8.74	7,348	0.064	8.91	17,289	0.154	-	-	-	8.91	17,289	0.154			
SUPPLEMENTAL CHARGE, PBXN9 ^(†)	-	-	-	24.35	3,227	0.079	24.84	7,348	0.183	25.32	17,289	0.438	-	-	-	25.32	17,289	0.438			
Subtotal: Recurring Cost	-	-	-	-	-	11.687	-	-	25.752	-	-	60.531	-	-	-	-	-	60.531			
Subtotal: Hardware Cost	-	-	-	-	-	11.687	-	-	25.752	-	-	60.531	-	-	-	-	-	60.531			
Support - Acceptance Testing Cost																					
Acceptance Test	-	-	-	-	-	0.250	-	-	0.502	-	-	0.500	-	-	-	-	-	0.500			
First Article Test	-	-	-	-	-	4.500	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	4.750	-	-	0.502	-	-	0.500	-	-	-	-	-	0.500			
Support - Non-Recurring Support Cost																					

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E67802 / PROJ, 155mm ARTY HE-BB, XM1128 [DA70]								
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:										
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Facilitization	-	-	-	-	-	-	-	-	25.000	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Non-Recurring Support Cost	-	-	-	-	-	-	-	-	25.000	-	-	-	-	-	-	-	-	-		
Support - Production Engineering Cost																				
Production Engineering	-	-	-	-	-	0.524	-	-	2.571	-	-	4.479	-	-	-	-	-	4.479		
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.524	-	-	2.571	-	-	4.479	-	-	-	-	-	4.479		
Gross/Weapon System Cost	-	-	-	-	-	16.961	-	-	53.825	-	-	65.512	-	-	-	-	-	65.512		
Remarks: This program plans to pursue Multi-Year Procurement for FY 2023 through FY 2027 as authorized in the FY 2023 National Defense Authorization Act. Dollars (\$M) and quantities for this program are: FY 2023 \$53.825 Quantity 7,204 FY 2024 \$65.512 Quantity 16,950 FY 2025 \$68.139 Quantity 17,303 FY 2026 \$83.457 Quantity 20,949 FY 2027 \$83.457 Quantity 20,524 (†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37			P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E67802 / PROJ, 155mm ARTY HE-BB, XM1128 [DA70]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2022	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Jun 2023	Dec 2025	3,164	1,654.78	N		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2023	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Jun 2023	Dec 2025	7,204	1,623.14	N		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2024	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	May 2024	Nov 2026	16,950	1,541.51	N		
METAL PART, M1128		2022	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2023	Oct 2024	3,575	1,185.62	Y		
METAL PART, M1128		2023	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2023	Oct 2024	7,564	1,209.82	Y		
METAL PART, M1128		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2024	Jun 2025	17,797	1,234.21	Y		
EXPLOSIVE FILL IMX-104		2022	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2023	Jun 2025	82,264	24.89	Y		
EXPLOSIVE FILL IMX-104		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2023	Jun 2025	187,304	24.15	Y		
EXPLOSIVE FILL IMX-104		2024	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Feb 2026	440,700	26.13	Y		
WOODEN PALLET, IMX		2022	KNOX CNTY ASSOC REMARKABLE / VINCENNES, IN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2023	Jun 2024	411	143.89	Y		
WOODEN PALLET, IMX		2023	KNOX CNTY ASSOC REMARKABLE / VINCENNES, IN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Jun 2023	Jun 2024	937	146.77	Y		
WOODEN PALLET, IMX		2024	KNOX CNTY ASSOC REMARKABLE / VINCENNES, IN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Feb 2025	2,203	149.69	Y		
MELTABLE FUZE PLUG		2022	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Jun 2023	Jan 2025	3,227	8.57	Y		
MELTABLE FUZE PLUG		2023	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Jun 2023	Jan 2025	7,348	8.74	Y		
MELTABLE FUZE PLUG		2024	TO BE SELECTED / TBS01	C / IDIQ	PICATINNY ARSENAL, NJ	Feb 2024	Aug 2025	17,289	8.91	Y		
SUPPLEMENTAL CHARGE, PBXN9		2022	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	3,227	24.35	Y		
SUPPLEMENTAL CHARGE, PBXN9		2023	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	7,348	24.84	Y		
SUPPLEMENTAL CHARGE, PBXN9		2024	TO BE SELECTED / TBS01	C / IDIQ	ROCK ISLAND ARSENAL, IL	Feb 2024	Aug 2025	17,289	25.32	Y		

^(†) indicates the presence of a P-21

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types	Item Number / Title [DODIC]: E67802 / PROJ, 155mm ARTY HE-BB, XM1128 [DA70]

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37							P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types												Item Number / Title [DODIC]: E67802 / PROJ, 155mm ARTY HE-BB, XM1128 [DA70]																											
Cost Elements (Units in Thousands)							Fiscal Year 2023												Fiscal Year 2024												B A L A N C E															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024																											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																
LOAD, ASSEMBLE, PACK (LAP)																																														
	1	2022	ARMY	3.164	.000	3.164													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.164									
	1	2023	ARMY	7.204	.000	7.204													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.204								
	1	2024	ARMY	16.950	.000	16.950																									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.950
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types										Item Number / Title [DODIC]: E67802 / PROJ, 155mm ARTY HE-BB, XM1128 [DA70]													
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2025													Fiscal Year 2026													B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LOAD, ASSEMBLE, PACK (LAP)																																	
	1	2022	ARMY	3.164	.000	3.164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.250	.250	.250	.250	.400	.400	.400	.400	.400	.164	.000		
	1	2023	ARMY	7.204	.000	7.204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.600	.600	.600	.600	.600	.600	.600	.600	.600	.600	1.204		
	1	2024	ARMY	16.950	.000	16.950	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.950		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types										Item Number / Title [DODIC]: E67802 / PROJ, 155mm ARTY HE-BB, XM1128 [DA70]													
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2027										Fiscal Year 2028														B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2026	BAL DUE AS OF 1 OCT	Calendar Year 2027										Calendar Year 2028																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LOAD, ASSEMBLE, PACK (LAP)																																	
	1	2022	ARMY	3.164	3.164	.000																											.000
	1	2023	ARMY	7.204	6.000	1.204	.600	.604																									.000
	1	2024	ARMY	16.950	.000	16.950	-	1.412	1.412	1.412	1.412	1.412	1.412	1.412	1.412	1.412	1.412	1.418															.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types				Item Number / Title [DODIC]: E67802 / PROJ, 155mm ARTY HE-BB, XM1128 [DA70]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	100	500	1,500	6	6	30	36	6	6	24	30

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 3102E89500 / ARTILLERY PROJECTILE, 155MM, All Types						Item Number / Title [DODIC]: E68604 / PROJ, ARTY, 155MM C-DAEM INCREMENT II						
ID Code (A=Service Ready, B=Not Service Ready) : B									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		-		-		2.500		-		2.500				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				-		-		-		2.500		-		2.500				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				-		-		-		2.500		-		2.500				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	2.100	-	-	-	-	-	2.100
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	-	-	-	-	-	-	-	-	-	2.100	-	-	-	-	-	2.100
Support - Program Management Cost																		
Government Management	-	-	-	-	-	-	-	-	-	-	-	0.400	-	-	-	-	-	0.400
<i>Subtotal: Support - Program Management Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.400	-	-	-	-	-	0.400
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	2.500	-	-	-	-	-	2.500
Remarks: FY 2024 funding will support engineering activities to complete Milestone C documentation and pre-contract award activities.																		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition							P-1 Line Item Number / Title: 6600E80100 / Proj 155mm Extended Range M982					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A					Other Related Program Elements: 0604814A				
Line Item MDAP/MAIS Code: 366												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	16,222	1,374	-	-	-	-	-	-	-	-	-	17,596
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,490.283	148.863	-	-	-	-	-	-	-	-	-	1,639.146
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	1,490.283	148.863	-	-	-	-	-	-	-	-	-	1,639.146
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	1,490.283	148.863	-	-	-	-	-	-	-	-	-	1,639.146
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	91,868.02	108,342.79	-	-	-	-	-	-	-	-	-	93,154.47

Description:

A portion of this funding line is directly aligned to Army Long Range Precision Fires (LRPF) Modernization Priorities. This budget line item includes the Excalibur munitions for use in the M777A2 Lightweight 155mm Howitzer (LW155), the M109A6 Paladin Howitzer, the M109A7 Paladin PIM Howitzer and the Swedish Archer Howitzer. Efforts are currently underway to qualify the Excalibur projectile in the Extended Range Cannon Artillery (ERCA) cannon system.

(E80100) Excalibur is a Precision Guided Extended Range 155mm Artillery projectile providing Brigade Combat Teams an organic precision fires capability. It provides improved fire support capability due to its increased range of 40.5 kilometers from the current 39 caliber systems and demonstrated 70 kilometers from the ERCA system which is currently in development. The projectile has a demonstrated accuracy of less than 2 meters radial miss distances, which enables a first round effect on target reducing the number of rounds required while reducing collateral damage. Excalibur Shaped Trajectory configuration enables user defined angle of attack and angle of fall to maximize effect on target. Excalibur is resistant to Global Positioning System (GPS) jamming. Due to its mature compartmented design configuration, Excalibur has significant upgrade potential and provides growth opportunities to support the National Defense Strategy, and Army Long Range Precision Fires (LRPF) Cross Functional Team (CFT), range and lethality requirements.

Excalibur is currently fielded and in use. Excalibur is an International Cooperative Development program, teamed with the Kingdom of Sweden (KoS), which contributed resources towards the development in accordance with an established Project Agreement.

This item is Code A, approved for service use.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army							Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition					P-1 Line Item Number / Title: 6600E80100 / Proj 155mm Extended Range M982					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: 0604814A				
Line Item MDAP/MAIS Code: 366										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E80103 / PROJ, 155mm ARTY, Extended Range M982-U Excalibur [DA71]	P-5a	A		16,222 / 1,490.283	1,374 / 148.863	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				16,222 / 1,490.283	1,374 / 148.863	- / -	- / -	- / -	- / -
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
<p>Justification:</p> <p>This Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>This is a critical munition and war reserve item used in combat.</p> <p>E80100 does not have a FY 2024 budget request - as of FY 2023, all Procurement funding has been realigned to F90100 Precision Artillery Munitions Budget Line Item, Standard Study Number F90111.</p>										

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 6600E80100 / Proj 155mm Extended Range M982										Item Number / Title [DODIC]: E80103 / PROJ, 155mm ARTY, Extended Range M982-U Excalibur [DA71]				
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity <i>(Units in Each)</i>				16,222		1,374		-		-		-		-						
Gross/Weapon System Cost <i>(\$ in Millions)</i>				1,490.283		148.863		-		-		-		-						
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-						
Net Procurement (P-1) <i>(\$ in Millions)</i>				1,490.283		148.863		-		-		-		-						
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-						
Total Obligation Authority <i>(\$ in Millions)</i>				1,490.283		148.863		-		-		-		-						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-						
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				91,868.02		108,342.79		-		-		-		-						
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
COMPLETE ROUND ^(†)	85,231.10	16,322	1,391.142	87,876.62	1,410	123.906	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Recurring Cost	-	-	1,391.142	-	-	123.906	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Hardware Cost	-	-	1,391.142	-	-	123.906	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Acceptance Testing Cost																				
Acceptance Test	-	-	7.880	-	-	1.527	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Acceptance Testing Cost	-	-	7.880	-	-	1.527	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Congressional Adjustments Cost																				
Congressional Rescission	-	-	7.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Congressional Adjustments Cost	-	-	7.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Engineering Change Proposals Cost																				
Engineering Change Proposals	-	-	24.057	-	-	13.238	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Engineering Change Proposals Cost	-	-	24.057	-	-	13.238	-	-	-	-	-	-	-	-	-	-	-	-		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 6600E80100 / Proj 155mm Extended Range M982					Item Number / Title [DODIC]: E80103 / PROJ, 155mm ARTY, Extended Range M982-U Excalibur [DA71]									
ID Code (A=Service Ready, B=Not Service Ready) : A															MDAP/MAIS Code:				

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Production Engineering Cost																		
Production Engineering	-	-	53.220	-	-	9.438	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	53.220	-	-	9.438	-	-	-	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	6.484	-	-	0.753	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	6.484	-	-	0.753	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	91,868.02	16,222	1,490.283	108,342.79	1,374	148.863	-	-	-	-	-	-	-	-	-	-	-	-

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 6600E80100 / Proj 155mm Extended Range M982					Item Number / Title [DODIC]: E80103 / PROJ, 155mm ARTY, Extended Range M982-U Excalibur [DA71]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	RAYTHEON MISSILE SYSTEMS CO / TUCSON, AZ	Option / FFP	PICATINNY ARSENAL, NJ	Jan 2022	Dec 2023	1,410	87,876.62	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

P-1 Line Item Number / Title:
6635F90100 / PRECISION ARTILLERY MUNITIONS

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	1,398	357	-	357	1,801	2,372	2,327	2,282	-	10,537
Gross/Weapon System Cost (\$ in Millions)	-	-	156.371	96.406	-	96.406	223.440	255.304	255.304	255.304	-	1,242.129
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	156.371	96.406	-	96.406	223.440	255.304	255.304	255.304	-	1,242.129
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	156.371	96.406	-	96.406	223.440	255.304	255.304	255.304	-	1,242.129
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	111.853	270.045	-	270.045	124.064	107.632	109.714	111.877	-	117.883

Description:

The Precision Artillery Munitions funding lines support programs of interest aligned to the Army Long Range Precision Fires (LRPF) Modernization Priorities.

This budget line item includes the Excalibur and Cannon-Delivered Area Effects Munitions (C-DAEM) Armor munitions.

(F90111) Excalibur is a Precision Guided Extended Range 155mm Artillery projectile providing Brigade Combat Teams an organic precision fires capability. Excalibur is currently fielded and in use. Excalibur is an International Cooperative Development program, teamed with the Kingdom of Sweden (KoS), which contributed resources towards the development in accordance with an established Project Agreement. Excalibur provides improved fire support capability due to its increased range of 40.5 kilometers from the current 39 caliber systems (M777A2 Lightweight 155mm Howitzer (LW155), the M109A6 Paladin Howitzer, the M109A7 Paladin PIM Howitzer and the Swedish Archer Howitzer) and demonstrated 70 kilometers from the 58-caliber XM1299 Extended Range Cannon Artillery (ERCA) Self Propelled Howitzer (SPH). The projectile has a demonstrated accuracy of less than 2 meters radial miss distances, which enables a first round effect on target reducing the number of rounds required while reducing collateral damage. Excalibur Shaped Trajectory configuration enables user defined angle of attack and angle of fall to maximize effect on target. Excalibur is resistant to Global Positioning System (GPS) jamming. Due to its mature compartmented design configuration, Excalibur has significant upgrade potential and provides growth opportunities to support the National Defense Strategy, and Army Long Range Precision Fires (LRPF) Cross Functional Team (CFT), range and lethality requirements.

This item is Code A, approved for service use.

(F90112) Cannon-Delivered Area Effects Munitions (C-DAEM) Armor is one of two 155mm projectiles identified to replace the current Department of Defense (DoD) unexploded ordnance (UXO) policy non-compliant stockpile of 155mm Dual Purpose Improved Conventional Munition (DPICM) projectiles. It is a 155mm cannon munition designed to address the cannon artillery area targets, from light to heavy armor, whether precisely or imprecisely located, moving or moved. C-DAEM Armor will provide U.S. ground forces with a capability to effectively engage, destroy, neutralize, and/or suppress threat formations. The projectile provides a hit-to-kill capability, enabling it to effectively engage area and point armored/mechanized targets at extended ranges. The projectile also includes a seeker, shape charged warhead, and M-Code GPS to provide an anti-armor capability out to 70km from the ERCA platform while maintaining compatibility with the existing inventory of 155mm platforms. This program has a long-term strategy for integrating increased capability, such as a datalink for round-to-round communications and inflight targeting updates and increased range.

This item is Code B, not approved for service use.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition						P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	F90111 / PROJ, ARTY, 155MM EXT RANGE M982A1 EXCAL	P-5a, P-21	A		- / -	- / -	1,168 / 119.477	107 / 38.918	- / -	107 / 38.918
P-5	F90112 / PROJ, ARTY, 155MM C-DAEM ARMOR	P-5a, P-21	B		- / -	- / -	230 / 36.894	250 / 57.488	- / -	250 / 57.488
P-40	Total Gross/Weapon System Cost				- / -	- / -	1,398 / 156.371	357 / 96.406	- / -	357 / 96.406
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
<p>Justification: The FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>FY 2024 Total Base dollars in the amount of \$96.406 million supports the procurement of 107 Excalibur lb projectiles and 250 C-DAEM Armor projectiles in support of fielding an Early Operational Capability (EOC).</p> <p>(F90111) Projectile 155mm Extended Range M982 Excalibur This is a critical munition and war reserve item used in combat. The FY 2024 request builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base Procurement dollars in the amount of \$38.918 million supports the procurement of 107 lb projectiles. TYPE CLASSIFICATION DATE: May 2014</p> <p>(F90112) PROJ, ARTY, 155mm C-DAEM ARMOR This is a war reserve item used in combat. The FY 2024 request builds Early Operational Capability (EOC) quantities of the selected C-DAEM Armor solution in FY 2022. FY 2024 Base Procurement dollars in the amount of \$57.488 million supports the procurement of 250 projectiles. TYPE CLASSIFICATION DATE: Planned FY 2026</p>										

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS						Item Number / Title [DODIC]: F90111 / PROJ, ARTY, 155MM EXT RANGE M982A1 EXCAL						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		1,168		107		-		107				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		-		119.477		38.918		-		38.918				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				-		-		119.477		38.918		-		38.918				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				-		-		119.477		38.918		-		38.918				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-		-		102.292		363.720		-		363.720				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	-	-	-	91.658	1,168	107.057	278.444	107	29.793	-	-	-	278.444	107	29.793
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	107.057	-	-	29.793	-	-	-	-	-	29.793
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	107.057	-	-	29.793	-	-	-	-	-	29.793
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.660	-	-	0.150	-	-	-	-	-	0.150
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	0.660	-	-	0.150	-	-	-	-	-	0.150
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	-	-	-	-	-	-	2.860	-	-	2.100	-	-	-	-	-	2.100
Subtotal: Support - Engineering Change Proposals Cost	-	-	-	-	-	-	-	-	2.860	-	-	2.100	-	-	-	-	-	2.100
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	8.234	-	-	6.224	-	-	-	-	-	6.224
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	8.234	-	-	6.224	-	-	-	-	-	6.224
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	0.666	-	-	0.650	-	-	-	-	-	0.650

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Exhibit P-5, Cost Analysis: PB 2024 Army					Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37			P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS			Item Number / Title [DODIC]: F90111 / PROJ, ARTY, 155MM EXT RANGE M982A1 EXCAL			
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	-	-	-	0.666	-	-	0.650	-	-	-	-	-	0.650
Gross/Weapon System Cost	-	-	-	-	-	-	102.292	1,168	119.477	363.720	107	38.918	-	-	-	363.720	107	38.918

Remarks:
The Excalibur hardware contract unit pricing each year is based on a linear pricing curve with decreasing prices for higher quantities. It is a sliding scale with lower unit costs as quantities increase and higher unit costs as quantities decrease.

(t) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS				Item Number / Title [DODIC]: F90111 / PROJ, ARTY, 155MM EXT RANGE M982A1 EXCAL				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2023	RAYTHEON MISSILE SYSTEMS CO / TUCSON, AZ	Option / FFP	PICATINNY ARSENAL, NJ	Jan 2023	Dec 2024	1,168	91.658	Y		
COMPLETE ROUND ^(†)		2024	RAYTHEON MISSILE SYSTEMS CO / TUCSON, AZ	Option / FFP	PICATINNY ARSENAL, NJ	Jan 2024	Dec 2025	107	278.444	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																	
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS										Item Number / Title [DODIC]: F90111 / PROJ, ARTY, 155MM EXT RANGE M982A1 EXCAL																	
Cost Elements (Units in Each)								Fiscal Year 2023												Fiscal Year 2024												B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023																		Calendar Year 2024												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
COMPLETE ROUND																																					
	1	2023	ARMY	1,168	0	1,168				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,168					
	1	2024	ARMY	107	0	107																A -	-	-	-	-	-	-	-	-	-	107					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS										Item Number / Title [DODIC]: F90111 / PROJ, ARTY, 155MM EXT RANGE M982A1 EXCAL														
Cost Elements (Units in Each)							Fiscal Year 2025													Fiscal Year 2026													BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
COMPLETE ROUND																																		
	1	2023	ARMY	1,168	0	1,168	-	-	12	100	100	100	100	100	106	110	110	110	110	110														0
	1	2024	ARMY	107	0	107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	95											0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS				Item Number / Title [DODIC]: F90111 / PROJ, ARTY, 155MM EXT RANGE M982A1 EXCAL			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	RAYTHEON MISSILE SYSTEMS CO - TUCSON, AZ	40	200	400	12	6	12	18	12	4	23	27

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS						Item Number / Title [DODIC]: F90112 / PROJ, ARTY, 155MM C-DAEM ARMOR						
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		230		250		-		250				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		-		36.894		57.488		-		57.488				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				-		-		36.894		57.488		-		57.488				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				-		-		36.894		57.488		-		57.488				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-		-		160.409		229.952		-		229.952				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	-	-	-	218.000	123	26.814	184.324	250	46.081	-	-	-	184.324	250	46.081
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	26.814	-	-	46.081	-	-	-	-	-	46.081
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	26.814	-	-	46.081	-	-	-	-	-	46.081
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	1.000	-	-	2.040	-	-	-	-	-	2.040
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	1.000	-	-	2.040	-	-	-	-	-	2.040
Support - Engineering Change Proposals Cost																		
Engineering Change Proposals	-	-	-	-	-	-	-	-	5.600	-	-	5.600	-	-	-	-	-	5.600
Subtotal: Support - Engineering Change Proposals Cost	-	-	-	-	-	-	-	-	5.600	-	-	5.600	-	-	-	-	-	5.600
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	3.480	-	-	3.767	-	-	-	-	-	3.767
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	3.480	-	-	3.767	-	-	-	-	-	3.767
Gross/Weapon System Cost	-	-	-	-	-	-	160.409	230	36.894	229.952	250	57.488	-	-	-	229.952	250	57.488

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS	Item Number / Title [DODIC]: F90112 / PROJ, ARTY, 155MM C-DAEM ARMOR
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:
<p>Remarks: The C-DAEM Armor hardware contract unit price will decrease as quantities increase. Current pricing is based on initial hardware builds that does not incorporate full rate production learning curves, resulting in overall higher unit costs for Early Operational Capability (EOC) projectiles.</p> <p>\$5.600 million will support Engineering Change Proposals identified for projectile design, margins, materials, fabrication processes, testing and yield deficiencies as the design and manufacturing processes stabilize during the first few years of production.</p> <p>(†) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS				Item Number / Title [DODIC]: F90112 / PROJ, ARTY, 155MM C-DAEM ARMOR				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2023	TO BE SELECTED / TBS01	TBD	PICATINNY ARSENAL, NJ	May 2023	May 2026	123	218.000	Y		
COMPLETE ROUND ^(†)		2024	TO BE SELECTED / TBS01	TBD	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2027	250	184.324	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS										Item Number / Title [DODIC]: F90112 / PROJ, ARTY, 155MM C-DAEM ARMOR																									
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2023										Fiscal Year 2024													B A L A N C E															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023										Calendar Year 2024																												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P														
COMPLETE ROUND																																													
	1	2023	ARMY	123	0	123											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	123									
	2	2024	ARMY	250	0	250																								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P															

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37							P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS													Item Number / Title [DODIC]: F90112 / PROJ, ARTY, 155MM C-DAEM ARMOR													
Cost Elements (Units in Each)							Fiscal Year 2025													Fiscal Year 2026													B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
COMPLETE ROUND																																	
	1	2023	ARMY	123	0	123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	123				0
	2	2024	ARMY	250	0	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS										Item Number / Title [DODIC]: F90112 / PROJ, ARTY, 155MM C-DAEM ARMOR															
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2027										Fiscal Year 2028										BALANCE								
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2026	BAL DUE AS OF 1 OCT	Calendar Year 2027										Calendar Year 2028																		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP				
COMPLETE ROUND																																			
	1	2023	ARMY	123	123	0																													0
	2	2024	ARMY	250	0	250	-	-	-	-	-	250																							0
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 6635F90100 / PRECISION ARTILLERY MUNITIONS				Item Number / Title [DODIC]: F90112 / PROJ, ARTY, 155MM C-DAEM ARMOR			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	200	500	950	8	8	36	44	6	6	36	42
2	TO BE SELECTED - TBS01	200	500	1,000	8	8	36	44	6	6	36	42

Remarks:
FY 2024 request builds Early Operational Capability (EOC) quantities of the C-DAEM Armor solution selected by the Army Requirements Oversight Council (AROC).

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

P-1 Line Item Number / Title:
8750E27501 / Artillery Propellants, Fuzes and Primers, All

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,548.855	805.837	143.763	172.947	-	172.947	230.795	283.813	313.882	316.338	-	4,816.230
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,548.855	805.837	143.763	172.947	-	172.947	230.795	283.813	313.882	316.338	-	4,816.230
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,548.855	805.837	143.763	172.947	-	172.947	230.795	283.813	313.882	316.338	-	4,816.230
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

(E27501) Artillery Propellants, Fuzes and Primers, All Types.
A portion of this funding line is directly aligned to Army Long Range Precision Fires (LRPF) Modernization Priorities.

(E27502) ARTY, 155MM PROP CHG, MACS M231 SERIES
The Modular Artillery Charge System (MACS), M231 "Low Zone" is intended for use with all US 155mm cannon field artillery systems in use and development. The M231 is a "low-zone" increment designed to achieve ranges from 3.0 to 12 kilometers. Each MACS increment includes propellant, an ignition system, and a combustible case. Packaging permits long-term storage and helps protect the items from unplanned stimuli.
This item is Code A, approved for service use.

(E62208) ARTY, FUZE PD M739A1
The M739A1 Point Detonating (PD) and Delay Fuze is the Army's preferred, primary fuze for 105mm and 155mm projectiles to address point detonating/delay artillery functions. The M739A1 fuze contains an Impact Delay Module (IDM) assembly. The IDM provides fuze initiation delay based upon the completion of mechanical actions caused by projectile deceleration and will function immediately after passing through the target.
This item is Code A, approved for service use.

(E99250) ARTY, FUZE, PRECISION GUIDANCE KIT (PGK)
The Precision Guidance Kit (PGK) is a course correcting fuze that provides precision accuracy and efficiency for 155mm M795 and M549A1 High Explosive (HE) projectiles by eliminating a portion of the inherent errors associated with ballistic firing solutions which effectively reduces the number of projectiles required to execute fire missions. PGK utilizes a Global Positioning System (GPS) receiver and internal Guidance and Navigation Computer to accomplish its mission with point detonating and proximity fuzing functions. PGK is compatible with the M777A2 Lightweight 155mm Howitzer (LW155), the M109A6 Paladin Howitzer, and the M109A7 Paladin PIM Howitzer. The PGK M1156A1 will be compatible with XM1113 and M1128 projectiles as well as adding M-code capability. PGK supports the National Defense Strategy and future 155mm projectiles.
This item is Code A, approved for service use.

(E99251) ARTY, FUZE, 155mm Long Range-Precision Guidance Kit

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition		P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All	
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A		Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			
<p>The Long Range-Precision Guidance Kit (LR-PGK) effort will produce two precision course correcting fuze solutions: Precision Guidance Kit Extended Range (PGK-ER), which is a modified current Precision Guidance Kit to provide an immediate capability in support of the Extended Range Cannon Artillery (ERCA) Operational Assessment, and the Long-Range Precision Guidance Kit (LR-PGK), which will have superior performance capabilities to meet current and future threats. These course correcting fuzes provide accuracy and effectiveness at extended ranges and are capable in a Global Positioning System (GPS) jammed environment. These fuzes will also achieve precision accuracy at extended ranges and are compatible with the new XM1210 projectile, Supercharge propellant, and 58-caliber XM1299 ERCA Self-Propelled Howitzer (SPH). The fuzes will also be compatible with legacy 39-caliber weapon systems and munitions.</p> <p>This item is Code B, not approved for service use.</p> <p>(E99350) ARTY, 155mm SUPERCHARGE</p> <p>The Supercharge is a top-zone 155 millimeter (mm) propelling charge required to achieve maximum range requirements from the M1299 Extended Range Cannon Artillery (ERCA) Self-Propelled Howitzer (SPH). It achieves lethality overmatch out to 70 kilometers (km) with new extended range projectiles and increases range with compatible legacy projectiles up to thirty percent. Supercharge is a bag variant that is fired with the tactical variant stub charge.</p> <p>This item is Code B, not approved for service use.</p> <p>(E99360) ARTY, 155mm STUBCHARGE</p> <p>The Stub Charge consists of stub case plus propellant inside a combustible case. The Stub Charge is required to fire Modular Artillery Charge System (MACS) propellant at charges 1T, 2T, 3T, 4T, 2Z, 3Z & 4Z from M908 Extended Range Cannon with slide-block breech. Legacy MACS requires the Stub Charge to operate with increased pressures as a result of the slide-block breach architecture design. This is new to 155mm artillery and provides pressure seal and ignition when firing MACS from M1299 Extended Range Cannon Artillery (ERCA) Self-Propelled Howitzer (SPH). The Stub Charge has two variants, a training variant that has less propellant and allows for home station training out of ERCA using conventional MACS and a tactical variant that is used with the Supercharge for operational use and for live fire training at charges 9ZA & 9ZB.</p> <p>This item is Code B, not approved for service use.</p> <p>(E99909) ARTY, FUZE MOFA M782 SERIES</p> <p>The Multi-Option Fuze for Artillery (MOFA) is compatible with all bursting ammunition fired from all 105mm and 155mm cannon systems including M119, M109, and M777 series firing platforms and cannon assemblies. The MOFA provides proximity, precision time, delay and impact functions in a single fuze. The inductive fuze set feature optimizes MOFA for use with automated ammunition handling equipment. The MOFA combines proven subassemblies such as the safe and arm device with reserve batteries and a proximity sensor technology to affordably achieve enhanced performance, predictability, and safety.</p> <p>This item is Code A, approved for service use.</p> <p>(ER8021) ARTY, 155MM PROP CHG, MACS M232 SERIES</p> <p>The Modular Artillery Charge System (MACS) M232 "High Zone" is intended for use with all United States 155mm cannon field artillery systems. The M232 "High Zone" increment is designed to achieve ranges from 10 to 40 kilometers. Each MACS increment includes propellant, an ignition system, and a combustible case. Performance enhancing additives are included in the M232 "High Zone" increment. Packaging permits long-term storage and helps protect the items from unplanned stimuli.</p> <p>This item is Code A, approved for service use.</p>			

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition						P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All				
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E27502 / PROP CHG, 155mm ARTY MACS, M231 Series [DA12]	P-5a, P-21	A		- / 322.444	- / 11.258	- / 11.746	- / 45.016	- / -	- / 45.016
P-5	E62208 / FUZE,155mm ARTY Point Detonating (PD), M739 Series [N340]	P-5a, P-21	A		- / 343.170	- / 71.869	- / 14.337	- / 9.698	- / -	- / 9.698
P-5	E63000 / PRIMER,155mm ARTY Percussion, M82 Series [N523]	P-5a	A		- / 47.794	- / 12.352	- / -	- / -	- / -	- / -
P-5	E99250 / FUZE,155mm ARTY Precision Guidance Kit (PGK) [NA37]	P-5a, P-21	A		- / 1,038.565	- / 163.320	- / 31.317	- / 26.016	- / -	- / 26.016
P-5	E99251 / LONG-RANGE PRECISION GUIDANCE KIT (LR-PGK) [NZ04]	P-5a	B		- / -	- / 24.677	- / 37.891	- / 8.248	- / -	- / 8.248
P-5	E99350 / 155MM ARTILLERY SUPERCHARGE [DZ69]	P-5a, P-21			- / -	- / 0.010	- / 7.802	- / 16.469	- / -	- / 16.469
P-5	E99360 / 155MM ARTILLERY STUBCHARGE	P-5a, P-21			- / -	- / 0.010	- / 9.395	- / 28.194	- / -	- / 28.194
P-5	E99909 / Multi-Option Fuze, Artillery M782 [NA09]	P-5a, P-21	A		- / 10.000	- / 13.653	- / -	- / 19.000	- / -	- / 19.000
P-5	ER8021 / PROP CHG, 155mm ARTY MACS, M232 Series [DA67]	P-5a	A		- / 786.882	- / 508.688	- / 31.275	- / 20.306	- / -	- / 20.306
P-40	Total Gross/Weapon System Cost				- / 2,548.855	- / 805.837	- / 143.763	- / 172.947	- / -	- / 172.947
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The FY 2024 budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life cycle. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. FY 2024 Total Base dollars in the amount of \$172.947 million supports the production of 125,265 fuzes, 233,590 propelling charges and 30,255 ERCA propulsion stub charges and supercharges. (E27502) ARTY, 155MM PROP CHG, MACS M231 Series This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$45.016 million supports the procurement of 159,956 charges. This program plans to pursue Multi-Year Procurement for FY 2023 through FY 2027 as authorized in the FY 2023 National Defense Authorization Act. TYPE CLASSIFICATION DATE: 1999 (E62208) ARTY, FUZE PD M739 Series This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$9.698 million supports production of 103,529 fuzes. TYPE CLASSIFICATION: 1982										

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition		P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E99250) ARTY, FUZE, PRECISION GUIDANCE KIT (PGK) This is a critical munition and war reserve item used in both training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. Total Base dollars in the amount of \$26.016 million supports production of 2,312 PGKs. TYPE CLASSIFICATION DATE: October 2015</p> <p>(E99251) ARTY, FUZE, 155MM LONG RANGE PRECISION GUIDANCE KIT This is a critical munition and war reserve item used in both training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Total Base dollars in the amount of \$8.248 million supports the production of 123 precision course correcting fuzes to support the Extended Range Cannon Artillery (ERCA) Increased Range Self Propelled Howitzer (SPH) system. TYPE CLASSIFICATION DATE: 1QFY30</p> <p>(E99350) ARTY, 155MM SUPERCHARGE This is a war reserve item used in combat. FY 2024 request builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$16.469 million supports the Urgent Material Release production of 12,747 bag supercharges for the ERCA Increased Range SPH system. TYPE CLASSIFICATION DATE: 1QFY26</p> <p>(E99360) ARTY, 155MM STUB CHARGE This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$28.194 million supports the Urgent Material Release production of 6,240 training variant and 11,268 tactical variant stub charges for the ERCA Increased Range SPH system. TYPE CLASSIFICATION DATE: 1QFY26</p> <p>(E99909) ARTY, FUZE MOFA M782 SERIES This is a training standard item used in training and combat. The FY2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY2024 Total Base dollars in the amount of \$19.000 million supports the procurement of 19,301 fuzes. TYPE CLASSIFICATION: 1999</p> <p>(ER8021) ARTY, 155MM PROP CHG, MACS M232 SERIES This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Total Base dollars in the amount of \$20.306 million supports the production of 73,634 charges. This program plans to pursue Multi-Year Procurement for FY 2023 through FY 2027 as authorized in the FY 2023 National Defense Authorization Act. TYPE CLASSIFICATION DATE: 2001</p>		

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: E27502 / PROP CHG, 155mm ARTY MACS, M231 Series [DA12]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				322.444		11.258		11.746		45.016		-		45.016				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				322.444		11.258		11.746		45.016		-		45.016				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				322.444		11.258		11.746		45.016		-		45.016				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	9,123.21	34,920	318.582	108.98	46,200	5.035	166.87	41,325	6.896	170.20	159,956	27.225	-	-	-	170.20	159,956	27.225
COMBUSTIBLE CASES - M231 ^(†)	52.04	36,000	1.873	56.00	47,616	2.666	60.96	42,564	2.595	62.17	164,754	10.243	-	-	-	62.17	164,754	10.243
CONTAINER, M231 ^(†)	72.26	9,000	0.650	116.84	11,916	1.392	79.47	10,744	0.854	121.58	41,588	5.056	-	-	-	121.58	41,588	5.056
IGNITION PROPELLANT, MACS ^(†)	10.83	2,300	0.025	11.50	3,000	0.035	11.49	2,644	0.030	11.96	10,237	0.122	-	-	-	11.96	10,237	0.122
Subtotal: Recurring Cost	-	-	321.131	-	-	9.128	-	-	10.375	-	-	42.646	-	-	-	-	-	42.646
Subtotal: Hardware Cost	-	-	321.131	-	-	9.128	-	-	10.375	-	-	42.646	-	-	-	-	-	42.646
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.450	-	-	0.872	-	-	0.300	-	-	0.306	-	-	-	-	-	0.306
Subtotal: Support - Acceptance Testing Cost	-	-	0.450	-	-	0.872	-	-	0.300	-	-	0.306	-	-	-	-	-	0.306
Support - Production Engineering Cost																		
Production Engineering	-	-	0.863	-	-	1.258	-	-	1.071	-	-	2.064	-	-	-	-	-	2.064
Subtotal: Support - Production Engineering Cost	-	-	0.863	-	-	1.258	-	-	1.071	-	-	2.064	-	-	-	-	-	2.064
Gross/Weapon System Cost	-	-	322.444	-	-	11.258	-	-	11.746	-	-	45.016	-	-	-	-	-	45.016

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All	Item Number / Title [DODIC]: E27502 / PROP CHG, 155mm ARTY MACS, M231 Series [DA12]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Remarks: This program plans to pursue Multi-Year Procurement for FY 2023 through FY 2027 as authorized in the FY 2023 National Defense Authorization Act. Dollars (\$M) and quantities for this program are: FY 2023 \$11.746 Quantity 41,325 FY 2024 \$45.016 Quantity 159,596 FY 2025 \$45.654 Quantity 156,449 FY 2026 \$47.397 Quantity 159,082 FY 2027 \$46.520 Quantity 156,383 (t) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All					Item Number / Title [DODIC]: E27502 / PROP CHG, 155mm ARTY MACS, M231 Series [DA12]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2022	GENERAL DYNAMICS- OTS, INC. / HAMPTON, AR	Option / IDIQ	PICATINNY ARSENAL, NJ	Jul 2022	Jul 2024	46,200	108.98	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2023	TO BE SELECTED / TBS01	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2025	41,325	166.87	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2024	TO BE SELECTED / TBS01	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2026	159,956	170.20	Y		
COMBUSTIBLE CASES - M231		2022	ARMTEC DEFENSE PRODUCTS CO / COACHELLA, CA	Option / IDIQ	PICATINNY ARSENAL, NJ	Apr 2022	Sep 2023	47,616	56.00	Y		
COMBUSTIBLE CASES - M231		2023	ARMTEC DEFENSE PRODUCTS CO / COACHELLA, CA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Sep 2024	42,564	60.96	Y		
COMBUSTIBLE CASES - M231		2024	ARMTEC DEFENSE PRODUCTS CO / COACHELLA, CA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	164,754	62.17	Y		
CONTAINER, M231		2022	CONCO INC. / LOUISVILLE, KY	Option / IDIQ	PICATINNY ARSENAL, NJ	May 2022	May 2023	11,916	116.84	Y		
CONTAINER, M231		2023	TO BE SELECTED / TBS01	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2024	10,744	79.47	Y		
CONTAINER, M231		2024	TO BE SELECTED / TBS01	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	41,588	121.58	Y		
IGNITION PROPELLANT, MACS		2022	ST. MARKS POWDER INC. / CRAWFORDVILLE, FL	Option / IDIQ	PICATINNY ARSENAL, NJ	Jul 2022	Jul 2023	3,000	11.50	Y		
IGNITION PROPELLANT, MACS		2023	ST. MARKS POWDER INC. / CRAWFORDVILLE, FL	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2024	2,644	11.49	Y		
IGNITION PROPELLANT, MACS		2024	ST. MARKS POWDER INC. / CRAWFORDVILLE, FL	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	10,237	11.96	Y		

(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																												
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All										Item Number / Title [DODIC]: E27502 / PROP CHG, 155mm ARTY MACS, M231 Series [DA12]																												
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2022													Fiscal Year 2023													B A L A N C E															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023																												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																		
LOAD, ASSEMBLE, PACK (LAP)																																																
Prior Years Deliveries: 34920																																																
	1	2022	ARMY	46.200	.000	46.200														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46.200											
	2	2023	ARMY	41.325	.000	41.325																											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41.325
	2	2024	ARMY	159.956	.000	159.956																																159.956										
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																		

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All										Item Number / Title [DODIC]: E27502 / PROP CHG, 155mm ARTY MACS, M231 Series [DA12]														
Cost Elements (Units in Thousands)							Fiscal Year 2026													Fiscal Year 2027													B A L A N C E	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
LOAD, ASSEMBLE, PACK (LAP)																																		
Prior Years Deliveries: 34920																																		
	1	2022	ARMY	46.200	46.200	.000																												.000
	2	2023	ARMY	41.325	41.325	.000																												.000
	2	2024	ARMY	159.956	.000	159.956	-	-	-	-	-	39.989	39.989	39.989	39.989																			.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: E27502 / PROP CHG, 155mm ARTY MACS, M231 Series [DA12]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	GENERAL DYNAMICS-OTS, INC. - HAMPTON, AR	30,000	50,000	125,000	6	6	24	30	6	6	24	30
2	TO BE SELECTED - TBS01	30,000	60,000	100,000	6	6	24	30	6	6	24	30

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: E62208 / FUZE,155mm ARTY Point Detonating (PD), M739 Series [N340]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				343.170		71.869		14.337		9.698		-		9.698					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				343.170		71.869		14.337		9.698		-		9.698					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				343.170		71.869		14.337		9.698		-		9.698					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Hardware Cost																			
Recurring Cost																			
COMPLETE ROUND ^(†)	653.33	514,652	336.237	75.53	834,534	63.029	78.63	156,348	12.294	80.21	103,529	8.304	-	-	-	80.21	103,529	8.304	
Subtotal: Recurring Cost	-	-	336.237	-	-	63.032	-	-	12.294	-	-	8.304	-	-	-	-	-	8.304	
Subtotal: Hardware Cost	-	-	336.237	-	-	63.032	-	-	12.294	-	-	8.304	-	-	-	-	-	8.304	
Support - Acceptance Testing Cost																			
Acceptance Test	-	-	2.185	-	-	4.251	-	-	0.660	-	-	0.424	-	-	-	-	-	0.424	
Subtotal: Support - Acceptance Testing Cost	-	-	2.185	-	-	4.251	-	-	0.660	-	-	0.424	-	-	-	-	-	0.424	
Support - Production Engineering Cost																			
Production Engineering	-	-	4.749	-	-	4.586	-	-	1.383	-	-	0.970	-	-	-	-	-	0.970	
Subtotal: Support - Production Engineering Cost	-	-	4.749	-	-	4.586	-	-	1.383	-	-	0.970	-	-	-	-	-	0.970	
Gross/Weapon System Cost	-	-	343.170	-	-	71.869	-	-	14.337	-	-	9.698	-	-	-	-	-	9.698	
(†) indicates the presence of a P-5a																			

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: E62208 / FUZE, 155mm ARTY Point Detonating (PD), M739 Series [N340]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	ACTION MANUFACTURING COMPANY / BRISTOL, PA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2022	Mar 2025	834,534	75.53	Y		
COMPLETE ROUND ^(†)		2023	TO BE SELECTED / TBS01	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2026	156,348	78.63	Y		
COMPLETE ROUND ^(†)		2024	TO BE SELECTED / TBS01	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2027	103,529	80.21	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All													Item Number / Title [DODIC]: E62208 / FUZE, 155mm ARTY Point Detonating (PD), M739 Series [N340]									
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2022												Fiscal Year 2023												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
COMPLETE ROUND																																
Prior Years Deliveries: 514652																																
	2	2022	AFSO ^(†)	9.068	.000	9.068						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.068	
	2	2022	ARMY	834.534	.000	834.534						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	834.534	
	2	2022	MC ^(†)	147.712	.000	147.712						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	147.712	
	2	2022	Total	991.314	.000	991.314						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	991.314	
	1	2023	AFSO ^(†)	10.429	.000	10.429																		A -	-	-	-	-	-	-	-	10.429
	1	2023	ARMY	156.348	.000	156.348																		A -	-	-	-	-	-	-	-	156.348
	1	2023	MC ^(†)	10.429	.000	10.429																		A -	-	-	-	-	-	-	-	10.429
	1	2023	Total	177.206	.000	177.206																		-	-	-	-	-	-	-	-	177.206
	1	2024	AFSO ^(†)	11.031	.000	11.031																										11.031
	1	2024	ARMY	103.529	.000	103.529																										103.529
	1	2024	MC ^(†)	91.299	.000	91.299																										91.299
	1	2024	Total	205.859	.000	205.859																										205.859
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All													Item Number / Title [DODIC]: E62208 / FUZE,155mm ARTY Point Detonating (PD), M739 Series [N340]										
Cost Elements (Units in Thousands)							Fiscal Year 2024													Fiscal Year 2025													B A L A N C E
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
COMPLETE ROUND																																	
Prior Years Deliveries: 514652																																	
	2	2022	AFSO (†)	9.068	.000	9.068	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.068	-	-	-	-	-	-	.000		
	2	2022	ARMY	834.534	.000	834.534	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.817	36.885	25.000	25.000	25.000	.519	50.000	641.313		
	2	2022	MC (†)	147.712	.000	147.712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.115	12.514	25.000	25.000	25.000	50.083	-	.000		
	2	2022	Total	991.314	.000	991.314	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.000	49.399	50.000	50.000	50.000	50.602	50.000	641.313		
	1	2023	AFSO (†)	10.429	.000	10.429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.429		
	1	2023	ARMY	156.348	.000	156.348	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	156.348		
	1	2023	MC (†)	10.429	.000	10.429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.429		
	1	2023	Total	177.206	.000	177.206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177.206		
	1	2024	AFSO (†)	11.031	.000	11.031						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.031		
	1	2024	ARMY	103.529	.000	103.529						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	103.529		
	1	2024	MC (†)	91.299	.000	91.299						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91.299		
	1	2024	Total	205.859	.000	205.859						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	205.859	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All										Item Number / Title [DODIC]: E62208 / FUZE, 155mm ARTY Point Detonating (PD), M739 Series [N340]																
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2026													Fiscal Year 2027													BALANCE			
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT				Calendar Year 2026													Calendar Year 2027													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
COMPLETE ROUND																																				
Prior Years Deliveries: 514652																																				
	2	2022	AFSO (†)	9.068	9.068	.000	-	-	-	-	-	-	-	-	-	-																		.000		
	2	2022	ARMY	834.534	193.221	641.313	37.485	50.000	85.104	85.104	85.105	50.000	50.000	50.000	50.000	50.000	48.515																		.000	
	2	2022	MC (†)	147.712	147.712	.000	-	-	-	-	-	-	-	-	-	-																		.000		
	2	2022	Total	991.314	350.001	641.313	37.485	50.000	85.104	85.104	85.105	50.000	50.000	50.000	50.000	50.000	48.515	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2023	AFSO (†)	10.429	.000	10.429	-	-	-	-	-	10.429	-	-	-	-	-	-	-	-	-	-											.000			
	1	2023	ARMY	156.348	.000	156.348	-	-	-	-	-	13.029	13.029	13.029	13.029	13.029	13.029	13.029	13.029	13.029	13.029	13.029											.000			
	1	2023	MC (†)	10.429	.000	10.429	-	-	-	-	-	10.429	-	-	-	-	-	-	-	-	-	-											.000			
	1	2023	Total	177.206	.000	177.206	-	-	-	-	-	33.887	13.029	13.029	13.029	13.029	13.029	13.029	13.029	13.029	13.029	13.029	-	-	-	-	-	-	-	-	.000					
	1	2024	AFSO (†)	11.031	.000	11.031	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.031	-	-	-	-	-			.000					
	1	2024	ARMY	103.529	.000	103.529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.560	25.000	25.000	25.000	13.969			.000						
	1	2024	MC (†)	91.299	.000	91.299	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.409	25.000	25.000	16.890	-			.000						
	1	2024	Total	205.859	.000	205.859	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.000	50.000	50.000	41.890	13.969	-	-	.000						
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: E62208 / FUZE,155mm ARTY Point Detonating (PD), M739 Series [N340]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	20,000	35,000	50,000	2	2	36	38	6	6	36	42
2	ACTION MANUFACTURING COMPANY - BRISTOL, PA	20,000	35,000	50,000	10	10	36	46	10	10	36	46

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: E63000 / PRIMER,155mm ARTY Percussion, M82 Series [N523]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				47.794		12.352		-		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				47.794		12.352		-		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				47.794		12.352		-		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	322.28	144,000	46.409	18.03	547,094	9.864	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	46.409	-	-	9.864	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	46.409	-	-	9.864	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.210	-	-	1.368	-	-	-	-	-	-	-	-	-	-	-	-
First Article Test	-	-	-	-	-	0.060	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.210	-	-	1.428	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	1.175	-	-	1.059	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	1.175	-	-	1.059	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	47.794	-	-	12.352	-	-	-	-	-	-	-	-	-	-	-	-
^(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: E63000 / PRIMER, 155mm ARTY Percussion, M82 Series [N523]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	SECURITY SIGNALS INC / CORDOVA, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Sep 2022	Jul 2024	331,002	18.03	Y		
COMPLETE ROUND		2022	TO BE SELECTED / TBS01	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Jan 2025	216,092	18.03	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: E99250 / FUZE, 155mm ARTY Precision Guidance Kit (PGK) [NA37]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				1,038.565		163.320		31.317		26.016		-		26.016					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				1,038.565		163.320		31.317		26.016		-		26.016					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				1,038.565		163.320		31.317		26.016		-		26.016					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Hardware Cost																			
Recurring Cost																			
COMPLETE ROUND ^(†)	7,630.54	113,980	869.729	5,754.82	17,550	100.997	6,923.35	3,591	24.862	7,732.96	2,312	17.879	-	-	-	7,732.96	2,312	17.879	
Subtotal: Recurring Cost	-	-	869.729	-	-	100.997	-	-	24.862	-	-	17.879	-	-	-	-	-	17.879	
Non Recurring Cost																			
GPS Receiver Obsolescence (M-Code Compliance)	-	-	16.614	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Melody II ASIC Chips	-	-	46.447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
M762A1 Safe & Arm PBXW14	-	-	10.509	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Melody II Qual	-	-	15.969	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Non Recurring Cost	-	-	89.539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware Cost	-	-	959.268	-	-	100.997	-	-	24.862	-	-	17.879	-	-	-	-	-	17.879	
Support - Acceptance Testing Cost																			
Acceptance Test	-	-	18.248	-	-	4.533	-	-	1.460	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Acceptance Testing Cost	-	-	18.248	-	-	4.533	-	-	1.460	-	-	-	-	-	-	-	-	-	
Support - Engineering Change Proposals Cost																			
Engineering Change Proposals	-	-	13.283	-	-	43.226	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37							P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: E99250 / FUZE, 155mm ARTY Precision Guidance Kit (PGK) [NA37]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Engineering Change Proposals Cost	-	-	13.283	-	-	43.226	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Production Qualification Test	-	-	4.038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reliability	-	-	9.567	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	13.605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	34.161	-	-	14.564	-	-	4.995	-	-	8.137	-	-	-	-	-	8.137
Subtotal: Support - Production Engineering Cost	-	-	34.161	-	-	14.564	-	-	4.995	-	-	8.137	-	-	-	-	-	8.137
Gross/Weapon System Cost	-	-	1,038.565	-	-	163.320	-	-	31.317	-	-	26.016	-	-	-	-	-	26.016
Remarks: PGK unit cost increase is a result of contract quantity band decreasing and a result of increased unit prices planned for future PGK procurement of an ERCA hardened/58 caliber compatible PGK. (†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: E99250 / FUZE, 155mm ARTY Precision Guidance Kit (PGK) [NA37]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	NORTHROP GRUMMAN INNOVATION / PLYMOUTH, MN	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2022	Mar 2024	17,550	5,754.82	Y		
COMPLETE ROUND ^(†)		2023	NORTHROP GRUMMAN INNOVATION / PLYMOUTH, MN	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2025	3,591	6,923.35	Y		
COMPLETE ROUND		2024	NORTHROP GRUMMAN INNOVATION / PLYMOUTH, MN	Option / FFP	PICATINNY ARSENAL, NJ	Jun 2024	Sep 2026	2,312	7,732.96	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All										Item Number / Title [DODIC]: E99250 / FUZE, 155mm ARTY Precision Guidance Kit (PGK) [NA37]													
Cost Elements (Units in Thousands)								Fiscal Year 2022												Fiscal Year 2023												B A L A N C E	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
COMPLETE ROUND																																	
Prior Years Deliveries: 113980																																	
	1	2022	ARMY	17.550	.000	17.550						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.550	
	1	2022	MC ^(†)	4.897	.000	4.897						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.897	
	1	2022	Total	22.447	.000	22.447						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.447	
	1	2023	ARMY	3.591	.000	3.591													A -														

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All										Item Number / Title [DODIC]: E99250 / FUZE, 155mm ARTY Precision Guidance Kit (PGK) [NA37]														
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2024													Fiscal Year 2025													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
COMPLETE ROUND																																		
Prior Years Deliveries: 113980																																		
	1	2022	ARMY	17.550	.000	17.550	-	-	-	-	-	1.463	1.463	1.463	1.463	1.463	1.463	1.463	1.463	1.463	1.463	1.460	1.460											.000
	1	2022	MC ^(†)	4.897	.000	4.897	-	-	-	-	-	.400	.400	.410	.410	.410	.410	.410	.410	.410	.410	.410	.407											.000
	1	2022	Total	22.447	.000	22.447	-	-	-	-	-	1.863	1.863	1.873	1.873	1.873	1.873	1.873	1.873	1.873	1.870	1.867	-	-	-	-	-	-	-	-	.000			
	1	2023	ARMY	3.591	.000	3.591	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.291	.300	.300	.300	.300	.300	.300	1.500				
	1	2023	MC ^(†)	.600	.000	.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.200	.200	.200	-	-	-	-	.000				
	1	2023	Total	4.191	.000	4.191	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.491	.500	.500	.300	.300	.300	.300	1.500				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All										Item Number / Title [DODIC]: E99250 / FUZE, 155mm ARTY Precision Guidance Kit (PGK) [NA37]															
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2026													Fiscal Year 2027													B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
COMPLETE ROUND																																			
Prior Years Deliveries: 113980																																			
	1	2022	ARMY	17.550	17.550	.000																													.000
	1	2022	MC ^(†)	4.897	4.897	.000																													.000
	1	2022	Total	22.447	22.447	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2023	ARMY	3.591	2.091	1.500	.300	.300	.300	.300	.300																								.000
	1	2023	MC ^(†)	.600	.600	.000	-	-	-	-	-																								.000
	1	2023	Total	4.191	2.691	1.500	.300	.300	.300	.300	.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: E99250 / FUZE,155mm ARTY Precision Guidance Kit (PGK) [NA37]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	NORTHROP GRUMMAN INNOVATION - PLYMOUTH, MN	333	1,100	2,500	13	9	27	36	3	6	24	30

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: E99251 / LONG-RANGE PRECISION GUIDANCE KIT (LR-PGK) [NZ04]						
ID Code (A=Service Ready, B=Not Service Ready) : B										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		24.677		37.891		8.248		-		8.248				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		24.677		37.891		8.248		-		8.248				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		24.677		37.891		8.248		-		8.248				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	30,962.79	630	19.507	28,573.52	775	22.144	33,568.57	123	4.129	-	-	-	33,568.57	123	4.129
Subtotal: Recurring Cost	-	-	-	-	-	19.507	-	-	22.144	-	-	4.129	-	-	-	-	-	4.129
Subtotal: Hardware Cost	-	-	-	-	-	19.507	-	-	22.144	-	-	4.129	-	-	-	-	-	4.129
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.150	-	-	0.600	-	-	0.354	-	-	-	-	-	0.354
First Article Test	-	-	-	-	-	1.315	-	-	6.946	-	-	0.500	-	-	-	-	-	0.500
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	1.465	-	-	7.546	-	-	0.854	-	-	-	-	-	0.854
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	2.290	-	-	3.200	-	-	3.265	-	-	-	-	-	3.265
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	2.290	-	-	3.200	-	-	3.265	-	-	-	-	-	3.265
Support - System Engineering Cost																		
System Engineering	-	-	-	-	-	1.416	-	-	5.000	-	-	-	-	-	-	-	-	-
Subtotal: Support - System Engineering Cost	-	-	-	-	-	1.416	-	-	5.000	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	24.677	-	-	37.891	-	-	8.248	-	-	-	-	-	8.248
Remarks:																		

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37	P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All	Item Number / Title [DODIC]: E99251 / LONG-RANGE PRECISION GUIDANCE KIT (LR-PGK) [NZ04]
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:
Unit cost increase is a result of contract quantity band decreasing and a result of increased unit prices planned for future precision course correcting fuze procurement.		
(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: E99251 / LONG-RANGE PRECISION GUIDANCE KIT (LR-PGK) [NZ04]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	Northrup Grumman Defense System (NGDS) / Plymouth, MN	C / CPFF	PICATINNY ARSENAL, NJ	May 2023	Oct 2023	630	30,962.79	Y	Feb 2021	Mar 2021
COMPLETE ROUND		2023	Northrup Grumman Defense System (NGDS) / Plymouth, MN	Option / CPFF	PICATINNY ARSENAL, NJ	Dec 2023	Dec 2024	775	28,573.52	Y	Feb 2021	
COMPLETE ROUND		2024	Northrup Grumman Defense System (NGDS) / Plymouth, MN	Option / CPFF	PICATINNY ARSENAL, NJ	Sep 2024	Aug 2025	123	33,568.57	Y	Feb 2021	

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37							P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: E99350 / 155MM ARTILLERY SUPERCHARGE [DZ69]								
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (<i>Units in Each</i>)				-			-			-			-			-			-		
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-			0.010			7.802			16.469			-			16.469		
Less PY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Net Procurement (P-1) (<i>\$ in Millions</i>)				-			0.010			7.802			16.469			-			16.469		
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Total Obligation Authority (<i>\$ in Millions</i>)				-			0.010			7.802			16.469			-			16.469		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
COMPLETE ROUND OA ^(†)	-	-	-	-	-	-	2,467.57	642	1.584	-	-	-	-	-	-	-	-	-			
Complete Round UMR ^(†)	-	-	-	-	-	-	2,467.57	2,173	5.362	-	-	-	-	-	-	-	-	-			
155MM ARTILLERY SUPERCHARGE XM655E1-A ^(†)	-	-	-	-	-	-	-	-	-	1,853.50	6,905	12.798	-	-	-	1,853.50	6,905	12.798			
155MM ARTILLERY SUPERCHARGE XM655E1-B ^(†)	-	-	-	-	-	-	-	-	-	298.73	5,842	1.745	-	-	-	298.73	5,842	1.745			
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	6.946	-	-	14.544	-	-	-	-	-	14.544			
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	6.946	-	-	14.544	-	-	-	-	-	14.544			
Support - Acceptance Testing Cost																					
Acceptance Test	-	-	-	-	-	-	-	-	0.310	-	-	0.200	-	-	-	-	-	0.200			
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	0.310	-	-	0.200	-	-	-	-	-	0.200			
Support - Production Engineering Cost																					
Production Engineering	-	-	-	-	-	0.010	-	-	0.546	-	-	1.725	-	-	-	-	-	1.725			
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.010	-	-	0.546	-	-	1.725	-	-	-	-	-	1.725			

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: E99350 / 155MM ARTILLERY SUPERCHARGE [DZ69]						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	-	-	-	0.010	-	-	7.802	-	-	16.469	-	-	-	-	-	16.469

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All					Item Number / Title [DODIC]: E99350 / 155MM ARTILLERY SUPERCHARGE [DZ69]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND OA		2023	GD MARION / MARION, IL	SS / FFP	PICATINNY ARSENAL, NJ	Oct 2022	Nov 2023	642	2,467.57	Y		
Complete Round UMR		2023	GD MARION / MARION, IL	SS / FFP	PICATINNY ARSENAL, NJ	Jun 2023	Jun 2024	2,173	2,467.57	Y		
155MM ARTILLERY SUPERCHARGE XM655E1-A ^(†)		2024	GD MARION / MARION, IL	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	6,905	1,853.50	Y		
155MM ARTILLERY SUPERCHARGE XM655E1-B		2024	GD MARION / MARION, IL	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	5,842	298.73	Y		
^(†) indicates the presence of a P-21												

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All																			Item Number / Title [DODIC]: E99350 / 155MM ARTILLERY SUPERCHARGE [DZ69]									
Cost Elements (Units in Each)								Fiscal Year 2023														Fiscal Year 2024														BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
155MM ARTILLERY SUPERCHARGE XM655E1-A																																						
	1	2024	ARMY		6,905	0	6,905															A - - - - - - -														6,905		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All										Item Number / Title [DODIC]: E99350 / 155MM ARTILLERY SUPERCHARGE [DZ69]													
Cost Elements (Units in Each)							Fiscal Year 2025													Fiscal Year 2026													BALANCE
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
155MM ARTILLERY SUPERCHARGE XM655E1-A																																	
	1	2024	ARMY	6,905	0	6,905	-	-	-	-	-	-	-	-	-	-	1,000	1,000	1,000	1,000	1,000	1,000	905								0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army								Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: E99350 / 155MM ARTILLERY SUPERCHARGE [DZ69]			

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	GD MARION - MARION, IL	1,500	2,000	2,500	6	6	18	24	6	6	18	24

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: E99360 / 155MM ARTILLERY STUBCHARGE							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-					
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-		0.010		9.395		28.194		-		28.194					
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Net Procurement (P-1) (<i>\$ in Millions</i>)				-		0.010		9.395		28.194		-		28.194					
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Total Obligation Authority (<i>\$ in Millions</i>)				-		0.010		9.395		28.194		-		28.194					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Hardware Cost																			
Recurring Cost																			
STUB CHARGE TRAINING OA ^(†)	-	-	-	-	-	-	930.00	880	0.818	-	-	-	-	-	-	-	-		
STUB CHARGE TACTICAL OA ^(†)	-	-	-	-	-	-	1,780.00	1,480	2.634	-	-	-	-	-	-	-	-		
STUB CHARGE TRAINING UMR ^(†)	-	-	-	-	-	-	930.00	2,588	2.407	-	-	-	-	-	-	-	-		
STUB CHARGE TACTICAL UMR ^(†)	-	-	-	-	-	-	1,780.00	1,238	2.204	-	-	-	-	-	-	-	-		
155MM ARTILLERY STUBCHARGE XM660 ^(†)	-	-	-	-	-	-	-	-	-	1,877.59	11,268	21.157	-	-	-	1,877.59	11,268		
155MM ARTILLERY STUBCHARGE, XM659 ^(†)	-	-	-	-	-	-	-	-	-	823.62	6,240	5.139	-	-	-	823.62	6,240		
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	8.063	-	-	26.296	-	-	-	-	-		
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	8.063	-	-	26.296	-	-	-	-	-		
Support - Acceptance Testing Cost																			
Acceptance Test	-	-	-	-	-	-	-	-	0.366	-	-	0.150	-	-	-	-	-		
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	0.366	-	-	0.150	-	-	-	-	-		
Support - Production Engineering Cost																			

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All					Item Number / Title [DODIC]: E99360 / 155MM ARTILLERY STUBCHARGE									
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:				

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Production Engineering	-	-	-	-	-	0.010	-	-	0.966	-	-	1.748	-	-	-	-	-	1.748
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.010	-	-	0.966	-	-	1.748	-	-	-	-	-	1.748
Gross/Weapon System Cost	-	-	-	-	-	0.010	-	-	9.395	-	-	28.194	-	-	-	-	-	28.194

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All					Item Number / Title [DODIC]: E99360 / 155MM ARTILLERY STUBCHARGE			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
STUB CHARGE TRAINING OA		2023	GENERAL DYNAMICS MARION / MARION, IL.	SS / FFP	PICATINNY ARSENAL, NJ	Oct 2022	Aug 2023	880	930.00	Y		
STUB CHARGE TACTICAL OA		2023	GENERAL DYNAMICS MARION / MARION, IL.	SS / FFP	PICATINNY ARSENAL, NJ	Oct 2022	Oct 2023	1,480	1,780.00	Y		
STUB CHARGE TRAINING UMR		2023	GENERAL DYNAMICS MARION / MARION, IL.	SS / FFP	PICATINNY ARSENAL, NJ	Jun 2023	Jun 2024	2,588	930.00	Y		
STUB CHARGE TACTICAL UMR		2023	GENERAL DYNAMICS MARION / MARION, IL.	SS / FFP	ROCK ISLAND ARSENAL, IL	Jun 2023	Jun 2024	1,238	1,780.00	Y		
155MM ARTILLERY STUBCHARGE XM660 ^(†)		2024	GENERAL DYNAMICS MARION / MARION, IL.	SS / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	11,268	1,877.59	Y		
155MM ARTILLERY STUBCHARGE, XM659 ^(†)		2024	GENERAL DYNAMICS MARION / MARION, IL.	SS / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	6,240	823.62	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All																			Item Number / Title [DODIC]: E99360 / 155MM ARTILLERY STUBCHARGE									
Cost Elements (Units in Thousands)								Fiscal Year 2023														Fiscal Year 2024														B A L A N C E		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
155MM ARTILLERY STUBCHARGE XM660																																						
	1	2024	ARMY	11.268	.000	11.268															A -	-	-	-	-	-	-	-					11.268					
155MM ARTILLERY STUBCHARGE, XM659																																						
	2	2024	ARMY	6.240	.000	6.240															A -	-	-	-	-	-	-	-					6.240					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All										Item Number / Title [DODIC]: E99360 / 155MM ARTILLERY STUBCHARGE													
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2025												Fiscal Year 2026												BALANCE		
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
155MM ARTILLERY STUBCHARGE XM660																																	
	1	2024	ARMY	11.268	.000	11.268	-	-	-	-	-	.500	.500	.500	2.000	2.000	2.000	2.000	1.768													.000	
155MM ARTILLERY STUBCHARGE, XM659																																	
	2	2024	ARMY	6.240	.000	6.240	-	-	-	-	-	2.080	2.080	2.080																			.000
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: E99360 / 155MM ARTILLERY STUBCHARGE			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	GENERAL DYNAMICS MARION - MARION, IL.	2,000	2,500	5,000	6	6	12	18	6	6	12	18
2	GENERAL DYNAMICS MARION - MARION, IL.	2,000	2,500	5,000	6	6	12	18	6	6	12	18

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: E99909 / Multi-Option Fuze, Artillery M782 [NA09]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				10.000		13.653		-		19.000		-		19.000				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				10.000		13.653		-		19.000		-		19.000				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				10.000		13.653		-		19.000		-		19.000				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	-	-	10.000	831.38	8,064	6.704	-	-	-	885.96	19,301	17.100	-	-	-	885.96	19,301	17.100
Subtotal: Recurring Cost	-	-	10.000	-	-	6.704	-	-	-	-	-	17.100	-	-	-	-	-	17.100
Subtotal: Hardware Cost	-	-	10.000	-	-	6.704	-	-	-	-	-	17.100	-	-	-	-	-	17.100
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.879	-	-	-	-	-	-	-	-	-	-	-	-
First Article Test	-	-	-	-	-	2.644	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	3.523	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	3.426	-	-	-	-	-	1.900	-	-	-	-	-	1.900
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	3.426	-	-	-	-	-	1.900	-	-	-	-	-	1.900
Gross/Weapon System Cost	-	-	10.000	-	-	13.653	-	-	-	-	-	19.000	-	-	-	-	-	19.000
†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All					Item Number / Title [DODIC]: E99909 / Multi-Option Fuze, Artillery M782 [NA09]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round ^(†)		2022	NORTHROP GRUMMAN SYSTEMS CORP / ROCKET CENTER, WV	C / IDIQ	ROCK ISLAND ARSENAL, IL	Jul 2022	Mar 2024	8,064	831.38	Y		
Complete Round ^(†)		2024	NORTHROP GRUMMAN SYSTEMS CORP / ROCKET CENTER, WV	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2026	19,301	885.96	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																		
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37							P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All													Item Number / Title [DODIC]: E99909 / Multi-Option Fuze, Artillery M782 [NA09]																	
Cost Elements (Units in Thousands)							Fiscal Year 2022													Fiscal Year 2023													B A L A N C E				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
Complete Round																																					
	1	2022	ARMY	8.064	.000	8.064														A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.064
	1	2024	ARMY	19.301	.000	19.301																											19.301				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37										P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All										Item Number / Title [DODIC]: E99909 / Multi-Option Fuze, Artillery M782 [NA09]															
Cost Elements (Units in Thousands)							Fiscal Year 2024										Fiscal Year 2025													BALANCE					
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024										Calendar Year 2025																		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP				
Complete Round																																			
	1	2022	ARMY	8.064	.000	8.064	-	-	-	-	-	8.064																							.000
	1	2024	ARMY	19.301	.000	19.301						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.301	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37							P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All												Item Number / Title [DODIC]: E99909 / Multi-Option Fuze, Artillery M782 [NA09]														
Cost Elements (Units in Thousands)							Fiscal Year 2026												Fiscal Year 2027												B A L A N C E		
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026												Calendar Year 2027														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Complete Round																																	
	1	2022	ARMY	8.064	8.064	.000																											.000
	1	2024	ARMY	19.301	.000	19.301	-	-	-	-	-	9.650	9.651																				.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37					P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: E99909 / Multi-Option Fuze, Artillery M782 [NA09]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	NORTHROP GRUMMAN SYSTEMS CORP - ROCKET CENTER, WV	1	8,000	12,000	6	6	24	30	6	6	24	30

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: ER8021 / PROP CHG, 155mm ARTY MACS, M232 Series [DA67]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				786.882		508.688		31.275		20.306		-		20.306				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				786.882		508.688		31.275		20.306		-		20.306				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				786.882		508.688		31.275		20.306		-		20.306				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
*IGNITION PROPELLANT, MACS	11.05	20,269	0.224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOAD, ASSEMBLE, PACK (LAP) ^(†)	972.49	686,157	667.283	42.74	2,000,561	85.512	47.46	127,006	6.028	49.16	73,634	3.620	-	-	-	49.16	73,634	3.620
PROPELLANT, M31A2 ^(†)	20.14	3,384,831	68.169	24.11	9,644,934	232.509	21.45	612,168	13.131	24.72	354,916	8.774	-	-	-	24.72	354,916	8.774
CONTAINER, M232A1 ^(†)	76.52	135,054	10.334	128.60	419,616	53.963	81.90	26,671	2.184	133.81	15,463	2.069	-	-	-	133.81	15,463	2.069
CTG CASE COMBUSTIBLE F/155MM M ^(†)	48.12	660,216	31.769	59.45	2,060,947	122.527	58.67	130,816	7.675	59.85	75,843	4.539	-	-	-	59.85	75,843	4.539
IGNITION PROPELLANT, MACS ^(†)	10.83	25,317	0.274	11.50	131,113	1.508	11.49	8,255	0.095	11.96	4,786	0.057	-	-	-	11.96	4,786	0.057
Subtotal: Recurring Cost	-	-	778.055	-	-	496.037	-	-	29.113	-	-	19.059	-	-	-	-	-	19.059
Subtotal: Hardware Cost	-	-	778.055	-	-	496.037	-	-	29.113	-	-	19.059	-	-	-	-	-	19.059
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	1.500	-	-	7.647	-	-	0.203	-	-	0.115	-	-	-	-	-	0.115
First Article Test	-	-	0.245	-	-	0.255	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	1.745	-	-	7.902	-	-	0.203	-	-	0.115	-	-	-	-	-	0.115

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37						P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All						Item Number / Title [DODIC]: ER8021 / PROP CHG, 155mm ARTY MACS, M232 Series [DA67]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Government Furnished Materials Cost																		
Government Furnished Materials	-	-	0.224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Government Furnished Materials Cost	-	-	0.224	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	6.860	-	-	4.750	-	-	1.959	-	-	1.132	-	-	-	-	-	1.132
Subtotal: Support - Production Engineering Cost	-	-	6.860	-	-	4.750	-	-	1.959	-	-	1.132	-	-	-	-	-	1.132
Gross/Weapon System Cost	-	-	786.882	-	-	508.688	-	-	31.275	-	-	20.306	-	-	-	-	-	20.306
Remarks: This program plans to pursue Multi-Year Procurement for FY 2023 through FY 2027 as authorized in the FY 2023 National Defense Authorization Act. Dollars (\$M) and quantities for this program are: FY 2023 \$31.275 Quantity 127,006 FY 2024 \$20.306 Quantity 73,634 FY 2025 \$20.468 Quantity 73,275 FY 2026 \$21.052 Quantity 73,693 FY 2027 \$21.434 Quantity 72,351 (†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All					Item Number / Title [DODIC]: ER8021 / PROP CHG, 155mm ARTY MACS, M232 Series [DA67]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	GENERAL DYNAMICS- OTS, INC. / HAMPTON, AR	Option / IDIQ	PICATINNY ARSENAL, NJ	Jul 2022	Jul 2027	524,625	42.52	Y		
LOAD, ASSEMBLE, PACK (LAP)		2022	TO BE SELECTED / TBS01	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2028	1,090,361	42.52	Y		
LOAD, ASSEMBLE, PACK (LAP)		2022	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / IDIQ	PICATINNY ARSENAL, NJ	Nov 2022	Nov 2027	385,575	42.52	Y		
LOAD, ASSEMBLE, PACK (LAP)		2023	TO BE SELECTED / TBS01	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2025	127,006	47.46	Y		
LOAD, ASSEMBLE, PACK (LAP)		2024	TO BE SELECTED / TBS01	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2029	73,634	49.16	Y		
PROPELLANT, M31A2		2022	TO BE SELECTED / TBS01	Option / IDIQ	PICATINNY ARSENAL, NJ	Apr 2023	Dec 2024	5,255,986	24.15	Y		
PROPELLANT, M31A2		2022	GEN DYNAMICS ORDNANCE AND / SALABERRY-DE- VALLEYFIELD, CANADA	Option / IDIQ	PICATINNY ARSENAL, NJ	Sep 2022	Apr 2024	4,388,948	24.15	Y		
PROPELLANT, M31A2		2023	GEN DYNAMICS ORDNANCE AND / SALABERRY-DE- VALLEYFIELD, CANADA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Nov 2024	612,168	21.45	Y		
PROPELLANT, M31A2		2024	GEN DYNAMICS ORDNANCE AND / SALABERRY-DE- VALLEYFIELD, CANADA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Nov 2025	354,916	24.72	Y		
CONTAINER, M232A1		2022	CONCO INC. / LOUISVILLE, KY	Option / IDIQ	PICATINNY ARSENAL, NJ	May 2022	May 2023	28,656	128.60	Y		
CONTAINER, M232A1		2022	TO BE SELECTED / TBS01	Option / IDIQ	PICATINNY ARSENAL, NJ	Apr 2023	Apr 2024	390,960	128.60	Y		
CONTAINER, M232A1		2023	TO BE SELECTED / TBS01	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2024	26,671	81.90	Y		
CONTAINER, M232A1		2024	TO BE SELECTED / TBS01	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	15,463	133.81	Y		
CTG CASE COMBUSTIBLE F/155MM M		2022	ARMTEC DEFENSE PRODUCTS CO / COACHELLA, CA	Option / IDIQ	PICATINNY ARSENAL, NJ	Apr 2022	Mar 2023	2,060,947	59.45	Y		
CTG CASE COMBUSTIBLE F/155MM M		2023	ARMTEC DEFENSE PRODUCTS CO / COACHELLA, CA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2024	130,816	58.67	Y		
CTG CASE COMBUSTIBLE F/155MM M		2024	ARMTEC DEFENSE PRODUCTS CO / COACHELLA, CA	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	75,843	59.85	Y		
IGNITION PROPELLANT, MACS		2022	ST. MARKS POWDER INC. / CRAWFORDVILLE, FL	Option / IDIQ	PICATINNY ARSENAL, NJ	Aug 2022	Aug 2023	131,113	11.50	Y		
IGNITION PROPELLANT, MACS		2023	ST. MARKS POWDER INC. / CRAWFORDVILLE, FL	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2024	8,255	11.49	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 37				P-1 Line Item Number / Title: 8750E27501 / Artillery Propellants, Fuzes and Primers, All				Item Number / Title [DODIC]: ER8021 / PROP CHG, 155mm ARTY MACS, M232 Series [DA67]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
IGNITION PROPELLANT, MACS		2024	ST. MARKS POWDER INC. / CRAWFORDVILLE, FL	Option / IDIQ	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	4,786	11.96	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 43: Mines						P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types						
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A					Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	443.191	22.615	76.646	71.182	-	71.182	44.195	23.055	24.042	24.041	-	728.967
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	443.191	22.615	76.646	71.182	-	71.182	44.195	23.055	24.042	24.041	-	728.967
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	443.191	22.615	76.646	71.182	-	71.182	44.195	23.055	24.042	24.041	-	728.967
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Description: This budget line includes Mines and Mine Clearing Charges, All Types. (E39315) The M18A1 Claymore Mine is used when a directional, fixed, fragmentation mine is required for the defense of bivouac areas, outposts, and against infiltration tactics. It is also used against thin-skinned vehicles. (E72194) The M88 Volcano Practice Mine canister contains an explosive expulsion charge and six Inert weighted simulants providing similar effects to the M87 & M87A1 tactical canisters. The use of four M88 canisters in the four corners of the M139 Volcano System provide Warfighters the live fire effect by expelling the six dumb mines marking the start and end of a training mine field. The M88 when fired expels the six inert simulants at the same distance and distributions of density to represent similar emplacement of a tactical obstacle field. The M88 canisters are a onetime use class V ammo item. This item is Code A, approved for service use. (E72800) The Anti-Personnel Obstacle Breaching System (APOBS) is used by dismounted troops in combat operations to clear a lane through wire obstacles and anti-personnel mines. This item is a lightweight, self-contained, 1 shot expendable system that is transported and deployed by a 2 man team. It consists of a line charge/fuze assembly and a rocket motor assembly. APOBS uses the MK126 Mod 0 rocket motor to propel a line charge over the obstacle. The line is then detonated, clearing a lane. The APOBS System is being actively used in Combat Engineering Operations. This item is Code A, approved for service use. (E75101) M58A4 Linear Demolition Charge, commonly called the MICLIC, is deployed by the MK22 Mod 4 rocket from a MK155 launcher mounted to a M200A1 trailer or from the M1150 Assault Breacher Vehicle. Once deployed over the target minefield by the rocket, it is command detonated, clearing a vehicle width lane 100 meter long. The MICLIC is effective against single impulse, pressure fuzed mines. The M58A4 is less effective against blast hardened or complex fused mines. The M58A4 is being actively used in Combat Engineering Operations. This item is Code A, approved for service use. (E75102) Line Charge Inert M68A2 F/MICLIC is the training ammunition for the M58 Linear Demolition Charge. It is identical to the M58 except all explosive components have been replaced with non-explosive components of identical weight. It can be recovered after deployment by the MK22 MOD 4 rocket and used up to three times. This item is Code A, approved for service use. (E76900) The MK22 rocket is used to deploy the M58 Linear Demolition Charge or the M68A2 Inert Line Charge over a target obstacle. One rocket is used with each M58 and up to 3 can be used with each M68A2. This item is Code A, approved for service use.												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army							Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 43: Mines					P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types						
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A											
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	
P-5	E39315 / MINE, AP M18A1 w/Non-Elec Ignition System		A		- / 8.764	- / 1.635	- / -	- / -	- / -	- / -	
P-5	E72194 / MINE, Practice, M88 (VOLCANO) [K042]	P-5a, P-21	A		- / 24.068	- / 8.465	- / 7.961	- / 9.593	- / -	- / 9.593	
P-5	E72800 / Anti-Pers Obstacle Breachng Sys(APOBS), MK7 w/Mods [MN79]	P-5a, P-21	A		- / 135.514	- / 9.239	- / 18.033	- / 19.814	- / -	- / 19.814	
P-5	E75101 / Line Charge, M58 Series Mine Clearing f/MICLIC [M913]	P-5a, P-21	A		- / 129.275	- / 0.069	- / 22.025	- / 19.716	- / -	- / 19.716	
P-5	E75102 / LINE CHARGE INERT M68A2 F/MICLIC [M914]	P-5a, P-21	A		- / 56.446	- / 3.207	- / 15.883	- / 9.280	- / -	- / 9.280	
P-5	E76900 / ROCKET, Motor 5 in, MK22 MOD 4 f/MICLIC [J143]	P-5a, P-21	A		- / 89.124	- / -	- / 12.744	- / 12.779	- / -	- / 12.779	
P-40	Total Gross/Weapon System Cost				- / 443.191	- / 22.615	- / 76.646	- / 71.182	- / -	- / 71.182	
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.											
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.											

Justification:

The FY 2024 Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2024 Total Base dollars in the amount of \$71.182 million supports the procurement of 5 variants of Mines and Mine Clearing Charges.

(E39315) MINE, AP M18A1 w/Non-Elec Ignition System - This is a training standard item used in training and combat. The request supports annual training and builds a depot level in accordance with the Army's procurement goal.
Type Classification Date: 1960

(E72194) Practice M88 Volcano - This is a training standard item used in functional training and combat. The FY 2024 request supports annual training and builds a reserve to support out year training in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$9.593 million supports the production of 2,296 M88 Volcanos.
Type Classification Date: 1989

(E72800) Anti-Personnel Obstacle Breaching Sys (APOBS) - This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$19.814 million supports the procurement of 1,186 APOBS. Rocket Motor Grains and PBXN-10 explosive are provided as Government Furnished Material. Naval Surface Warfare Center Indian Head produces rocket motor grains. PBXN-10 is currently sourced from Holston Army Ammunition Plant.
Type Classification Date: 2001

(E75101) Mine Clearing Line Charge M58 Series (MICLIC) - This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$19.716 million supports the procurement of 240 MICLICs. LAP is conducted by American Ordnance at Iowa Army Ammunition Plant. C4 explosive is provided as Government Furnished Material and sourced from Holston Army Ammunition Plant.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 43: Mines		P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
Type Classification Date: 1985		
(E75102) Line Charge Inert M68A2 F/MICLIC - This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$9.280 million supports the procurement of 192 MICLIC Inert items. LAP is conducted by American Ordnance at Iowa Army Ammunition Plant. Type Classification Date: 1985		
(E76900) MICLIC 5 In Rocket Motor MK 22 MOD 4 - This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$12.779 million supports the procurement of 554 Rocket Motors. LAP is conducted by Naval Surface Warfare Center Indian Head which awards direct cite funded contracts for subcomponents. The sole NTIB (National Technology and Industrial Base) source for N-5 propellant is to be selected. Type Classification Date: 1985		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43							P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types							Item Number / Title [DODIC]: E39315 / MINE, AP M18A1 w/Non-Elec Ignition System						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-						
Gross/Weapon System Cost (<i>\$ in Millions</i>)				8.764		1.635		-		-		-		-						
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Net Procurement (P-1) (<i>\$ in Millions</i>)				8.764		1.635		-		-		-		-						
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Total Obligation Authority (<i>\$ in Millions</i>)				8.764		1.635		-		-		-		-						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
LOAD, ASSEMBLE, PACK (LAP)	223.00	33,000	7.359	219.26	4,986	1.093	-	-	-	-	-	-	-	-	-	-	-	-		
COMP C-4 CLASS 3	18.11	54,450	0.986	16.90	16,292	0.275	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Recurring Cost	-	-	8.345	-	-	1.369	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Hardware Cost	-	-	8.345	-	-	1.369	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Production Engineering Cost																				
Production Engineering	-	-	0.419	-	-	0.266	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Production Engineering Cost	-	-	0.419	-	-	0.266	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Cost	-	-	8.764	-	-	1.635	-	-	-	-	-	-	-	-	-	-	-	-		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43						P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types						Item Number / Title [DODIC]: E72194 / MINE, Practice, M88 (VOLCANO) [K042]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (Units in Each)				-		-		-		-		-		-						
Gross/Weapon System Cost (\$ in Millions)				24.068		8.465		7.961		9.593		-		9.593						
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-						
Net Procurement (P-1) (\$ in Millions)				24.068		8.465		7.961		9.593		-		9.593						
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-						
Total Obligation Authority (\$ in Millions)				24.068		8.465		7.961		9.593		-		9.593						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (\$ in Millions)				-		-		-		-		-		-						
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-						
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
COMPLETE ROUND ^(†)	5,773.21	3,291	19.000	3,566.00	2,065	7.364	3,566.00	2,066	7.367	3,830.00	2,296	8.794	-	-	-	3,830.00	2,296	8.794		
Subtotal: Recurring Cost	-	-	19.000	-	-	7.364	-	-	7.367	-	-	8.794	-	-	-	-	-	8.794		
Subtotal: Hardware Cost	-	-	19.000	-	-	7.364	-	-	7.367	-	-	8.794	-	-	-	-	-	8.794		
Support - Production Engineering Cost																				
Production Engineering	-	-	5.068	-	-	1.101	-	-	0.594	-	-	0.799	-	-	-	-	-	0.799		
Subtotal: Support - Production Engineering Cost	-	-	5.068	-	-	1.101	-	-	0.594	-	-	0.799	-	-	-	-	-	0.799		
Gross/Weapon System Cost	-	-	24.068	-	-	8.465	-	-	7.961	-	-	9.593	-	-	-	-	-	9.593		
^(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43				P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types					Item Number / Title [DODIC]: E72194 / MINE, Practice, M88 (VOLCANO) [K042]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	May 2023	Nov 2024	2,065	3,566.00	Y		Jan 2022
COMPLETE ROUND ^(†)		2023	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	May 2023	Nov 2024	2,066	3,566.00	Y		Jan 2022
COMPLETE ROUND ^(†)		2024	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	May 2024	Nov 2025	2,296	3,830.00	Y		Jan 2022

^(†) indicates the presence of a P-21

Remarks:
E72194 / MINE, Practice, M88 (VOLCANO) - Two vendor protests after full and open request for proposal (RFP) and the need for cost and pricing data by the single bidding vendor slipped the contract award of FY2022 and FY2023 dollars into May 2023. Awarding FY2022 and FY2023 funding together will provide the government with a better price per unit for hardware. FY 2024 funding is required for continued production and to satisfy Army inventory requirements.

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Exhibit P-21, Production Schedule: PB 2024 Army																	Date: March 2023																	
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43							P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types																	Item Number / Title [DODIC]: E72194 / MINE, Practice, M88 (VOLCANO) [K042]										
Cost Elements (Units in Each)							Fiscal Year 2023													Fiscal Year 2024													B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
COMPLETE ROUND																																		
Prior Years Deliveries: 3291																																		
	1	2022	ARMY	2,065	0	2,065								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,065	
	1	2023	ARMY	2,066	0	2,066								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,066
	1	2024	ARMY	2,296	0	2,296																		A -		-	-	-	-	-	2,296			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																		
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43										P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types														Item Number / Title [DODIC]: E72194 / MINE, Practice, M88 (VOLCANO) [K042]													
Cost Elements <i>(Units in Each)</i>								Fiscal Year 2025														Fiscal Year 2026														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025														Calendar Year 2026																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
COMPLETE ROUND																																					
Prior Years Deliveries: 3291																																					
	1	2022	ARMY	2,065	0	2,065	-	173	172	172	172	172	172	172	172	172	172	172																0			
	1	2023	ARMY	2,066	0	2,066	-	173	173	172	172	172	172	172	172	172	172	172																0			
	1	2024	ARMY	2,296	0	2,296	-	-	-	-	-	-	-	-	-	-	-	-	192	192	192	192	191	191	191	191	191	191	191	191	191	191					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																		
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43										P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types															Item Number / Title [DODIC]: E72194 / MINE, Practice, M88 (VOLCANO) [K042]												
Cost Elements (Units in Each)							Fiscal Year 2027															Fiscal Year 2028															B A L A N C E
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2026	BAL DUE AS OF 1 OCT	Calendar Year 2027															Calendar Year 2028															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
COMPLETE ROUND																																					
Prior Years Deliveries: 3291																																					
	1	2022	ARMY	2,065	2,065	0																										0					
	1	2023	ARMY	2,066	2,066	0																										0					
	1	2024	ARMY	2,296	2,105	191																										0					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2024 Army								Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43					P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types				Item Number / Title [DODIC]: E72194 / MINE, Practice, M88 (VOLCANO) [K042]		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	100	500	1,000	6	8	18	26	6	8	18	26

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43							P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types						Item Number / Title [DODIC]: E72800 / Anti-Pers Obstacle Breachng Sys(APOBS), MK7 w/Mods [MN79]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				135.514			9.239			18.033			19.814			-			19.814		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				135.514			9.239			18.033			19.814			-			19.814		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				135.514			9.239			18.033			19.814			-			19.814		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
LOAD, ASSEMBLE, PACK (LAP) ^(†)	37,905.65	3,105	117.697	12,190.84	550	6.705	12,190.84	1,093	13.325	12,573.38	1,186	14.912	-	-	-	12,573.38	1,186	14.912			
PBXN-10 TYPE 2 ^(†)	26.77	7,280	0.195	27.80	1,490	0.041	28.78	3,279	0.094	29.79	3,558	0.106	-	-	-	29.79	3,558	0.106			
PBXN-10 TYPE 1 ^(†)	23.67	141,900	3.359	26.24	29,800	0.782	27.72	60,115	1.666	28.12	65,230	1.834	-	-	-	28.12	65,230	1.834			
PROPELLANT GRAIN (ROCKET) ^(†)	543.01	2,913	1.582	550.00	715	0.393	559.17	1,366	0.764	572.32	1,483	0.849	-	-	-	572.32	1,483	0.849			
Subtotal: Recurring Cost	-	-	122.832	-	-	7.922	-	-	15.849	-	-	17.701	-	-	-	-	-	17.701			
Subtotal: Hardware Cost	-	-	122.832	-	-	7.922	-	-	15.849	-	-	17.701	-	-	-	-	-	17.701			
Support - Production Engineering Cost																					
Production Engineering	-	-	2.645	-	-	1.307	-	-	2.176	-	-	2.105	-	-	-	-	-	2.105			
Subtotal: Support - Production Engineering Cost	-	-	2.645	-	-	1.307	-	-	2.176	-	-	2.105	-	-	-	-	-	2.105			
Support - Quality Assurance Cost																					
Quality Assurance	-	-	10.037	-	-	0.011	-	-	0.008	-	-	0.008	-	-	-	-	-	0.008			
Subtotal: Support - Quality Assurance Cost	-	-	10.037	-	-	0.011	-	-	0.008	-	-	0.008	-	-	-	-	-	0.008			
Gross/Weapon System Cost	-	-	135.514	-	-	9.239	-	-	18.033	-	-	19.814	-	-	-	-	-	19.814			
Remarks:																					

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43	P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types	Item Number / Title [DODIC]: E72800 / Anti-Pers Obstacle Breachng Sys(APOBS), MK7 w/Mods [MN79]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
FY 2022 and FY 2023 funding will be combined for award in March 2023 for better economies of scale.		
(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43				P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types					Item Number / Title [DODIC]: E72800 / Anti-Pers Obstacle Breachng Sys(APOBS), MK7 w/Mods [MN79]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2022	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	550	12,190.84	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2023	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	1,093	12,190.84	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2024	TO BE SELECTED / TBS01	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	1,186	12,573.38	Y		
PBXN-10 TYPE 2		2022	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2022	Sep 2023	1,490	27.80	Y		
PBXN-10 TYPE 2		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Jul 2024	3,279	28.78	Y		
PBXN-10 TYPE 2		2024	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / FFP	ROCK ISLAND ARSENAL, IL	Feb 2024	Sep 2025	3,558	29.79	Y		
PBXN-10 TYPE 1		2022	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / FFP	ROCK ISLAND ARSENAL, IL	Sep 2022	Mar 2024	29,800	26.24	Y		
PBXN-10 TYPE 1		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	60,115	27.72	Y		
PBXN-10 TYPE 1		2024	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / FFP	ROCK ISLAND ARSENAL, IL	Feb 2024	Sep 2025	65,230	28.12	Y		
PROPELLANT GRAIN (ROCKET)		2022	NAVAL SURFACE WARFRE CTR / INDIAN HEAD, MD	PO	ROCK ISLAND ARSENAL, IL	Mar 2023	Jun 2024	715	550.00	Y		
PROPELLANT GRAIN (ROCKET)		2023	NAVAL SURFACE WARFRE CTR / INDIAN HEAD, MD	PO	ROCK ISLAND ARSENAL, IL	Mar 2023	Aug 2024	1,366	559.17	Y		
PROPELLANT GRAIN (ROCKET)		2024	NAVAL SURFACE WARFRE CTR / INDIAN HEAD, MD	PO	ROCK ISLAND ARSENAL, IL	Mar 2024	Aug 2025	1,483	572.32	Y		

(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43										P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types										Item Number / Title [DODIC]: E72800 / Anti-Pers Obstacle Breachng Sys(APOBS), MK7 w/Mods [MN79]													
Cost Elements <i>(Units in Each)</i>								Fiscal Year 2022												Fiscal Year 2023												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LOAD, ASSEMBLE, PACK (LAP)																																	
Prior Years Deliveries: 3105																																	
	1	2022	ARMY	550	0	550													A - - - - - - -												550		
	1	2022	MC ^(†)	509	0	509													A - - - - - - -												509		
	1	2022	Total	1,059	0	1,059													- - - - - - -												1,059		
	1	2023	ARMY	1,093	0	1,093													A - - - - - - -												1,093		
	1	2023	MC ^(†)	72	0	72													A - - - - - - -												72		
	1	2023	Total	1,165	0	1,165													- - - - - - -												1,165		
	1	2024	ARMY	1,186	0	1,186																									1,186		
	1	2024	MC ^(†)	66	0	66																									66		
	1	2024	Total	1,252	0	1,252																									1,252		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																					Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43							P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types														Item Number / Title [DODIC]: E72800 / Anti-Pers Obstacle Breachng Sys(APOBS), MK7 w/Mods [MN79]														
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2024														Fiscal Year 2025														B A L A N C E
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024														Calendar Year 2025														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
LOAD, ASSEMBLE, PACK (LAP)																																			
Prior Years Deliveries: 3105																																			
	1	2022	ARMY	550	0	550	-	-	-	-	-	-	-	-	-	-	-	75	75	71	70	70	70	70	-	-	-	-	-	-	-	49			
	1	2022	MC ^(†)	509	0	509	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	43	43	43	43	42	42	42	42	42	42	42			
	1	2022	Total	1,059	0	1,059	-	-	-	-	-	-	-	-	-	-	-	75	75	114	113	113	113	113	42	42	42	42	42	42	42	91			
	1	2023	ARMY	1,093	0	1,093	-	-	-	-	-	-	-	-	-	-	-	92	91	91	91	91	91	91	91	91	91	91	91	91	91		0		
	1	2023	MC ^(†)	72	0	72	-	-	-	-	-	-	-	-	-	-	-	36	36	-	-	-	-	-	-	-	-	-	-	-	0				
	1	2023	Total	1,165	0	1,165	-	-	-	-	-	-	-	-	-	-	-	128	127	91	91	91	91	91	91	91	91	91	91	91	-	0			
	1	2024	ARMY	1,186	0	1,186	A -					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	108	1,078			
	1	2024	MC ^(†)	66	0	66	A -					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	55			
	1	2024	Total	1,252	0	1,252	-					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	119	1,133			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2024 Army																		Date: March 2023																	
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43							P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types														Item Number / Title [DODIC]: E72800 / Anti-Pers Obstacle Breachng Sys(APOBS), MK7 w/Mods [MN79]														
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2026														Fiscal Year 2027														BALANCE
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026														Calendar Year 2027														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
LOAD, ASSEMBLE, PACK (LAP)																																			
Prior Years Deliveries: 3105																																			
	1	2022	ARMY	550	501	49	49																											0	
	1	2022	MC ^(†)	509	467	42	42																											0	
	1	2022	Total	1,059	968	91	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	1	2023	ARMY	1,093	1,093	0																											0		
	1	2023	MC ^(†)	72	72	0																											0		
	1	2023	Total	1,165	1,165	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	1	2024	ARMY	1,186	108	1,078	98	98	98	98	98	98	98	98	98	98																		0	
	1	2024	MC ^(†)	66	11	55	5	5	5	5	5	5	5	5	5	5																		0	
	1	2024	Total	1,252	119	1,133	103	103	103	103	103	103	103	103	103	103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43					P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types				Item Number / Title [DODIC]: E72800 / Anti-Pers Obstacle Breachng Sys(APOBS), MK7 w/Mods [MN79]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	50	130	400	8	6	18	24	6	6	18	24

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43							P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types						Item Number / Title [DODIC]: E75101 / Line Charge, M58 Series Mine Clearing f/MICLIC [M913]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base		FY 2024 OCO		FY 2024 Total	
Procurement Quantity (<i>Units in Each</i>)				-			-			-			-		-		-	
Gross/Weapon System Cost (<i>\$ in Millions</i>)				129.275			0.069			22.025			19.716		-		19.716	
Less PY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-		-		-	
Net Procurement (P-1) (<i>\$ in Millions</i>)				129.275			0.069			22.025			19.716		-		19.716	
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-		-		-	
Total Obligation Authority (<i>\$ in Millions</i>)				129.275			0.069			22.025			19.716		-		19.716	
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-			-			-			-		-		-	
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-			-			-			-		-		-	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	26,075.75	4,950	129.075	-	-	-	31,939.72	280	8.943	33,237.16	240	7.977	-	-	-	33,237.16	240	7.977
COMP C-4 CLASS 3 ^(†)	-	-	-	-	-	-	17.86	518,520	9.261	18.61	444,446	8.271	-	-	-	18.61	444,446	8.271
FUZE, DEMOLITION KIT: M1134A4 (FOR MICLIC) ^(†)	-	-	-	-	-	-	6,603.25	280	1.849	6,736.41	240	1.617	-	-	-	6,736.41	240	1.617
Subtotal: Recurring Cost	-	-	129.075	-	-	-	-	-	20.053	-	-	17.865	-	-	-	-	-	17.865
Subtotal: Hardware Cost	-	-	129.075	-	-	-	-	-	20.053	-	-	17.865	-	-	-	-	-	17.865
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.072	-	-	0.040	-	-	-	-	-	0.040
First Article Test	-	-	0.200	-	-	-	-	-	0.191	-	-	0.176	-	-	-	-	-	0.176
Subtotal: Support - Acceptance Testing Cost	-	-	0.200	-	-	-	-	-	0.263	-	-	0.216	-	-	-	-	-	0.216
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.069	-	-	1.706	-	-	1.632	-	-	-	-	-	1.632
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.069	-	-	1.706	-	-	1.632	-	-	-	-	-	1.632
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	0.004	-	-	0.003	-	-	-	-	-	0.003

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43						P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types						Item Number / Title [DODIC]: E75101 / Line Charge, M58 Series Mine Clearing f/MICLIC [M913]											
ID Code (A=Service Ready, B=Not Service Ready) : A																		MDAP/MAIS Code:					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																							
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total							
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)					
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	-	-	-	0.004	-	-	0.003	-	-	-	-	-	0.003					
Gross/Weapon System Cost	-	-	129.275	-	-	0.069	-	-	22.025	-	-	19.716	-	-	-	-	-	19.716					
Remarks: FY 2024 unit cost increase is based on contractual unit prices in the third ordering period based on contract price/unit ranges . (†) indicates the presence of a P-5a																							

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43				P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types				Item Number / Title [DODIC]: E75101 / Line Charge, M58 Series Mine Clearing f/MICLIC [M913]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2023	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / FFP	ROCK ISLAND ARSENAL, IL	Jun 2023	Dec 2024	280	31,939.72	Y		
LOAD, ASSEMBLE, PACK (LAP) ^(†)		2024	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / FFP	ROCK ISLAND ARSENAL, IL	Jun 2024	Dec 2025	240	33,237.16	Y		
COMP C-4 CLASS 3		2023	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	May 2023	518,520	17.86	Y		
COMP C-4 CLASS 3		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2024	444,446	18.61	Y		
FUZE, DEMOLITION KIT: M1134A4 (FOR MICLIC)		2023	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	May 2023	280	6,603.25	Y		
FUZE, DEMOLITION KIT: M1134A4 (FOR MICLIC)		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2024	Jun 2025	240	6,736.41	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43										P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types										Item Number / Title [DODIC]: E75101 / Line Charge, M58 Series Mine Clearing f/MICLIC [M913]																			
Cost Elements (Units in Each)							Fiscal Year 2023										Fiscal Year 2024														B A L A N C E								
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023										Calendar Year 2024																						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									
LOAD, ASSEMBLE, PACK (LAP)																																							
Prior Years Deliveries: 4950																																							
	1	2023	ARMY	280	0	280											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280						
	1	2023	MC ^(†)	13	0	13											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13					
	1	2023	Total	293	0	293											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	293					
	1	2024	ARMY	240	0	240																					A -	-	-	-	-	-	-	-	-	-	-	-	240
	1	2024	MC ^(†)	32	0	32																					A -	-	-	-	-	-	-	-	-	-	-	-	32
	1	2024	Total	272	0	272																					-	-	-	-	-	-	-	-	-	-	-	-	272
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43							P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types													Item Number / Title [DODIC]: E75101 / Line Charge, M58 Series Mine Clearing f/MICLIC [M913]															
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2025													Fiscal Year 2026														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
LOAD, ASSEMBLE, PACK (LAP)																																			
Prior Years Deliveries: 4950																																			
	1	2023	ARMY	280	0	280	-	-	20	20	22	25	25	25	25	25	25	25	25	18															0
	1	2023	MC ^(†)	13	0	13	-	-	5	5	3	-	-	-	-	-	-	-	-	-															0
	1	2023	Total	293	0	293	-	-	25	25	25	25	25	25	25	25	25	25	18	-	-	-	-	-	-	-	-	-	-	-	0				
	1	2024	ARMY	240	0	240	-	-	-	-	-	-	-	-	-	-	-	-	-	30	30	30	30	30	30	30	30			0					
	1	2024	MC ^(†)	32	0	32	-	-	-	-	-	-	-	-	-	-	-	-	-	12	10	10	-	-	-	-	-			0					
	1	2024	Total	272	0	272	-	-	-	-	-	-	-	-	-	-	-	-	-	42	40	40	30	30	30	30	30	-	-	0					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43					P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types				Item Number / Title [DODIC]: E75101 / Line Charge, M58 Series Mine Clearing f/MICLIC [M913]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	AMERICAN ORDNANCE LLC (IAAP) - MIDDLETOWN, IA	25	75	100	8	8	24	32	6	9	18	27

(±) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43						P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types						Item Number / Title [DODIC]: E75102 / LINE CHARGE INERT M68A2 F/MICLIC [M914]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				56.446		3.207		15.883		9.280		-		9.280				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				56.446		3.207		15.883		9.280		-		9.280				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				56.446		3.207		15.883		9.280		-		9.280				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	44,366.48	415	18.412	61,048.53	41	2.503	37,966.98	378	14.352	41,940.89	192	8.053	-	-	-	41,940.89	192	8.053
Subtotal: Recurring Cost	-	-	18.412	-	-	2.503	-	-	14.352	-	-	8.053	-	-	-	-	-	8.053
Subtotal: Hardware Cost	-	-	18.412	-	-	2.503	-	-	14.352	-	-	8.053	-	-	-	-	-	8.053
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acceptance Test	-	-	-	-	-	-	-	-	0.045	-	-	0.045	-	-	-	-	-	0.045
Subtotal: Support - Acceptance Testing Cost	-	-	0.250	-	-	-	-	-	0.045	-	-	0.045	-	-	-	-	-	0.045
Support - Production Engineering Cost																		
Production Engineering	-	-	37.777	-	-	0.697	-	-	1.483	-	-	1.175	-	-	-	-	-	1.175
Subtotal: Support - Production Engineering Cost	-	-	37.777	-	-	0.697	-	-	1.483	-	-	1.175	-	-	-	-	-	1.175
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.007	-	-	0.007	-	-	0.004	-	-	0.007	-	-	-	-	-	0.007
Subtotal: Support - Quality Assurance Cost	-	-	0.007	-	-	0.007	-	-	0.004	-	-	0.007	-	-	-	-	-	0.007
Gross/Weapon System Cost	-	-	56.446	-	-	3.207	-	-	15.883	-	-	9.280	-	-	-	-	-	9.280
Remarks:																		

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43	P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types	Item Number / Title [DODIC]: E75102 / LINE CHARGE INERT M68A2 F/MICLIC [M914]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<p>E75102 / LINE CHARGE INERT M68A2 F/MICLIC - FY 2024 unit cost was based on new contract pricing matrix. New contract was awarded to American Ordnance, IA in April 2021. Variations in planned procurements have an impact on pricing scale. FY 2022 through FY 2024 prices takes into account changes in planned procurements and are dependent on contractor range prices.</p> <p>(†) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43				P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types					Item Number / Title [DODIC]: E75102 / LINE CHARGE INERT M68A2 F/MICLIC [M914]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2022	Sep 2023	41	61,048.53	Y		
COMPLETE ROUND ^(†)		2023	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Sep 2024	378	37,966.98	Y		
COMPLETE ROUND ^(†)		2024	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Sep 2025	192	41,940.89	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43							P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types												Item Number / Title [DODIC]: E75102 / LINE CHARGE INERT M68A2 F/MICLIC [M914]															
Cost Elements (Units in Each)							Fiscal Year 2022												Fiscal Year 2023												B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
COMPLETE ROUND																																		
Prior Years Deliveries: 415																																		
	1	2022	ARMY	41	0	41						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	35		
	1	2023	ARMY	378	0	378																					A -	-	-	-	-	-	-	378
	1	2024	ARMY	192	0	192																											192	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43										P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types										Item Number / Title [DODIC]: E75102 / LINE CHARGE INERT M68A2 F/MICLIC [M914]													
Cost Elements (Units in Each)							Fiscal Year 2024													Fiscal Year 2025													B A L A N C E
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
COMPLETE ROUND																																	
Prior Years Deliveries: 415																																	
	1	2022	ARMY	41	6	35	5	5	5	5	5	5																			0		
	1	2023	ARMY	378	0	378	-	-	-	-	-	-	-	-	-	-	37	31	31	31	31	31	31	31	31	31	31	31	31		0		
	1	2024	ARMY	192	0	192						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	176			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43					P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types				Item Number / Title [DODIC]: E75102 / LINE CHARGE INERT M68A2 F/MICLIC [M914]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	AMERICAN ORDNANCE LLC (IAAP) - MIDDLETOWN, IA	5	15	50	8	8	24	32	8	6	18	24

Remarks:
FY 2024 funding will be awarded to American Ordnance, LLC in March 2024.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43							P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types						Item Number / Title [DODIC]: E76900 / ROCKET, Motor 5 in, MK22 MOD 4 f/MICLIC [J143]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				89.124		-		12.744		12.779		-		12.779				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				89.124		-		12.744		12.779		-		12.779				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				89.124		-		12.744		12.779		-		12.779				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	14,955.26	1,670	24.975	-	-	-	20,017.32	532	10.649	-	-	-	-	-	-	-	-	-
COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	20,421.01	554	11.313	-	-	-	20,421.01	554	11.313
PROPELLANT N-5 ^(†)	15.93	133,622	2.129	-	-	-	16.36	37,143	0.608	-	-	-	-	-	-	-	-	-
EC INHIBITING TAPE ^(†)	61.35	2,332	0.143	-	-	-	65.05	1,393	0.091	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	27.247	-	-	-	-	-	11.347	-	-	11.313	-	-	-	-	-	11.313
Subtotal: Hardware Cost	-	-	27.247	-	-	-	-	-	11.347	-	-	11.313	-	-	-	-	-	11.313
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.090	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.090	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	61.780	-	-	-	-	-	1.397	-	-	1.466	-	-	-	-	-	1.466
Subtotal: Support - Production Engineering Cost	-	-	61.780	-	-	-	-	-	1.397	-	-	1.466	-	-	-	-	-	1.466
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43						P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types						Item Number / Title [DODIC]: E76900 / ROCKET, Motor 5 in, MK22 MOD 4 f/MICLIC [J143]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Subtotal: Support - Quality Assurance Cost	-	-	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Cost	-	-	89.124	-	-	-	-	-	12.744	-	-	12.779	-	-	-	-	-	12.779		
Remarks: FY 2024 change from LAP to complete round occurred due to multiple Navy managed sub-contracts. Navy is managing over a dozen direct cite components. FY 2023 and 2024 unit cost increase due to inflation for specialty metals as well as the shrinking industrial based for obsolete manufacturing processes. (t) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43				P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types					Item Number / Title [DODIC]: E76900 / ROCKET, Motor 5 in, MK22 MOD 4 f/MICLIC [J143]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2023	Naval Surface Warfare Center / Indian Head, MD	PO	ROCK ISLAND ARSENAL, IL	May 2023	May 2025	532	20,017.32	Y		
COMPLETE ROUND ^(†)		2024	Naval Surface Warfare Center / Indian Head, MD	PO	ROCK ISLAND ARSENAL, IL	May 2024	May 2026	554	20,421.01	Y		
PROPELLANT N-5		2023	TO BE SELECTED / TBS01	PO	ROCK ISLAND ARSENAL, IL	Mar 2023	Nov 2023	37,143	16.36	Y		
EC INHIBITING TAPE		2023	TO BE SELECTED / TBS01	PO	ROCK ISLAND ARSENAL, IL	Mar 2023	Nov 2023	1,393	65.05	Y		
^(†) indicates the presence of a P-21												

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43										P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types										Item Number / Title [DODIC]: E76900 / ROCKET, Motor 5 in, MK22 MOD 4 f/MICLIC [J143]											
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2023										Fiscal Year 2024										BALANCE				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023										Calendar Year 2024														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P
COMPLETE ROUND																															
	1	2024	ARMY		554	0	554																		A -	-	-	-	-	554	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43							P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types															Item Number / Title [DODIC]: E76900 / ROCKET, Motor 5 in, MK22 MOD 4 f/MICLIC [J143]												
Cost Elements (Units in Each)							Fiscal Year 2025												Fiscal Year 2026												BALANCE			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025												Calendar Year 2026															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
COMPLETE ROUND																																		
	1	2024	ARMY		554	0	554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	46	46	46	46	322
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43					P-1 Line Item Number / Title: 0442EA0800 / Mines & Clearing Charges, All Types				Item Number / Title [DODIC]: E76900 / ROCKET, Motor 5 in, MK22 MOD 4 f/MICLIC [J143]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Naval Surface Warfare Center - Indian Head, MD	12	41	83	8	8	24	32	6	6	18	24

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 43: Mines							P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	5.994	34.761	25.403	55.374	-	55.374	27.713	27.424	11.941	10.977	-	199.587
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	5.994	34.761	25.403	55.374	-	55.374	27.713	27.424	11.941	10.977	-	199.587
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	5.994	34.761	25.403	55.374	-	55.374	27.713	27.424	11.941	10.977	-	199.587
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description: This budget line includes Close Terrain Shaping Obstacle, All Types.</p> <p>(F76740) The XM343 Standoff Activated Volcano Obstacle (SAVO) meets the requirements of United States Army Europe (USAREUR) Operational Needs Statement (ONS) 18-22702. It provides a new delivery capability for fielded Volcano mine canisters utilizing fielded initiation systems, which are the M7 Spider Networked Munition System, the MK152/M156 Remote Activation Munition Systems (RAMS), or the CD450-4J Blasting Machine. The primary item is the SAVO base plate which is placed on the ground and has four ports to connect the Volcano canisters and electrical terminals for wires to connect to the selected initiation system for manual initiation. The base plate is packaged with ancillary components to aid in emplacement such as initiation wire, stabilizing ground stakes, sandbags, and canister carrying straps. This item is compliant with the DOD landmine policy and executes U.S. Army modernization priorities in support of the National Defense Strategy. This item is Code A, approved for service use.</p> <p>SAVO Full Task Trainer (FTT) base plates will reflect the form, fit, function, and weight of the tactical XM343 SAVO base plate. FTT base plates will produce sight and sound effects, upon receipt of a launch signal from a fielded initiation system, which effectively represents the XM343 SAVO obstacle's mine launch and armed status functionality. The SAVO Trainers will include the same packaging and ancillary components as the tactical SAVO. The SAVO emplacement trainer will reflect the same form, fit and weight of tactical baseplate and can be utilized in conjunction with the SAVO FTT for a more wide-scale collective training experience at Home Station and the Combat Training Centers. This item is Code A, approved for service use.</p> <p>(F78310) The XM204 Interim Top Attack munition meets the requirements of United States Army Europe (USAREUR) Operational Needs Statement (ONS) 18-22702. The XM204 is a hand emplaced, Top Attack, Anti-Vehicular (AV) munition. The XM204 consists of a Dispenser Launcher Module (DLM), and (4) top attack sub-munitions. Once manually armed, the XM204 system autonomously detects, tracks and engages target vehicles using seismic & acoustic sensors and radar within the DLM, and multi-array thermal & laser detection sensors within the Top Attack Sub-munition. A top attack sub-munition is launched by a rocket motor and engages a target using a High Melt Explosive (HMX) initiated warhead. This item is compliant with the DOD landmine policy and executes U.S. Army modernization priorities in support of the National Defense Strategy. This system will be used as a key component for Terrain Shaping Obstacles (TSO) to influence enemy maneuver or deny access to key terrain. This item is Code A, approved for service use.</p> <p>The XM98 provides an interim Top Attack Emplacement Trainer that is a recoverable, reusable, durable, and versatile item. The XM98 emplacement trainer provides inert representative weight, form, fit and features of an XM204 Interim Top Attack system. No energetics, sensors, or signatures are included in the trainer. Buttons/Switches/Lights & Indicators/Batteries shall reflect the function of an XM204 Interim Top Attack system. The primary purpose of the trainer is to establish proficiency in the arming sequence. Additionally, the trainer will establish proficiencies in the planning and emplacement of terrain shaping obstacles in conjunction with other systems in the Soldier portfolio. This item is Code A, approved for service use.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 43: Mines		P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>The XM204 Partial Task Trainer (PTT) provides a low cost, non-powered, inert training aid intended to replicate the form, weight, and visual signature of the tactical XM204 during force-on-force training exercises at combat training centers (CTC) rotations and home station training events. Engineer units will emplace the PTT in the maneuver space as part of the maneuver commander's counter mobility plan to fully exercise the engineer's unit individual and collective tasks to set up an obstacle. Procurement of the XM204 PTT significantly reduces quantities of the XM98 full task trainer and enhances training as there will be sufficient quantities available to fully replicate Brigade Combat Team operations at CTCs and home training stations.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army							Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 43: Mines					P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle					
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	F76740 / STANDOFF ACTIVATED VOLCANO OBSTACLE (SAVO), XM343	P-5a, P-21	A		- / -	- / 4.685	- / 4.503	- / 17.410	- / -	- / 17.410
P-5	F78310 / CLOSE TERRAIN SHAPING OBSTACLE (CTSO), XM204	P-5a, P-21	A		- / 5.994	- / 30.076	- / 20.900	- / 37.964	- / -	- / 37.964
P-40	Total Gross/Weapon System Cost				- / 5.994	- / 34.761	- / 25.403	- / 55.374	- / -	- / 55.374
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
<p>Justification:</p> <p>FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>FY 2024 Total Base dollars in the amount of \$55.374 million supports the procurement of 2 Close Terrain Shaping Obstacle capabilities.</p> <p>(F76740) Standoff Activated Volcano Obstacle (SAVO), XM343 - This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$11.378 million support the procurement of 407 complete systems of the XM343 Standoff Activated Volcano Obstacles. FY 2024 Base dollars in the amount of \$6.032 million support the COCOM requirement for procurement of 68 complete systems of the XM343 Standoff Activated Volcano Obstacles to deter potential adversaries and support European Deterrence Initiative. This is an increase of \$6.032 million from the FY 2023 enacted level.</p> <p>Type Classification Date: N/A</p> <p>(F78310) Close Terrain Shaping Obstacle (CTSO), XM204 - This is a training standard item used in training and combat. FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The FY 2024 base procurement dollars in the amount of \$37.964 million supports the production of 207 complete tactical systems of XM204 Terrain Shaping Obstacle Common Munition Systems.</p> <p>Type Classification Date: N/A</p>										

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43						P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle						Item Number / Title [DODIC]: F76740 / STANDOFF ACTIVATED VOLCANO OBSTACLE (SAVO), XM343						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-		-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		4.685		4.503		17.410		-		17.410				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				-		4.685		4.503		17.410		-		17.410				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				-		4.685		4.503		17.410		-		17.410				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND TACTICAL ^(†)	-	-	-	219.846	12	2.638	219.846	13	2.858	27.893	475	13.249	-	-	-	27.893	475	13.249
COMPLETE ROUND TRAINER	-	-	-	-	-	-	-	-	-	38.532	46	1.772	-	-	-	38.532	46	1.772
Spares Kits Trainer Aids, Device, and Simulations (TADSS)	-	-	-	-	-	-	-	-	-	4.811	46	0.221	-	-	-	4.811	46	0.221
Subtotal: Recurring Cost	-	-	-	-	-	2.638	-	-	2.858	-	-	15.242	-	-	-	-	-	15.242
Subtotal: Hardware Cost	-	-	-	-	-	2.638	-	-	2.858	-	-	15.242	-	-	-	-	-	15.242
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	1.630	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	1.630	-	-	-	-	-	-	-	-	-	-	-	-
Support - New Equipment Training (NET) Cost																		
Equipment	-	-	-	-	-	-	-	-	0.180	-	-	0.537	-	-	-	-	-	0.537
Subtotal: Support - New Equipment Training (NET) Cost	-	-	-	-	-	-	-	-	0.180	-	-	0.537	-	-	-	-	-	0.537
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.183	-	-	1.139	-	-	1.529	-	-	-	-	-	1.529

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43					P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle					Item Number / Title [DODIC]: F76740 / STANDOFF ACTIVATED VOLCANO OBSTACLE (SAVO), XM343									
ID Code (A=Service Ready, B=Not Service Ready) : A																			

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.183	-	-	1.139	-	-	1.529	-	-	-	-	-	1.529
Support - Program Management Cost																		
Government Management	-	-	-	-	-	0.234	-	-	0.326	-	-	0.102	-	-	-	-	-	0.102
Subtotal: Support - Program Management Cost	-	-	-	-	-	0.234	-	-	0.326	-	-	0.102	-	-	-	-	-	0.102
Gross/Weapon System Cost	-	-	-	-	-	4.685	-	-	4.503	-	-	17.410	-	-	-	-	-	17.410

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43				P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle				Item Number / Title [DODIC]: F76740 / STANDOFF ACTIVATED VOLCANO OBSTACLE (SAVO), XM343				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND TACTICAL ^(†)		2022	TBD / TBD	C / FFP	Picatinny Arsenal, NJ	Sep 2023	Mar 2024	12	219.846	N		
COMPLETE ROUND TACTICAL ^(†)		2023	TBD / TBD	C / FFP	Picatinny Arsenal, NJ	Sep 2023	Mar 2024	13	219.846	N		
COMPLETE ROUND TACTICAL ^(†)		2024	TBD / TBD	C / FFP	Picatinny Arsenal, NJ	Mar 2024	Nov 2024	475	27.893	N		

^(†) indicates the presence of a P-21

Remarks:
(F76740)One XM343 SAVO has a planned production contract award in quarter-four FY2023 and will transition into production/fielding acquisition pathway in quarter-one FY2024. In FY 2024 with the total funding available, the program is expected to be able to procure hardware at a cost effective QTY/Price range (above 401 tactical) on the production contract. FY 2024 funding is driven by prior FY testing and quantities. Prior FYs will procure at a lower economical QTY/Price range due to the significantly low total funding available. Procurement plan includes combining prior year funding at time of award in order to complete First Article Testing and procure minimum order quantities.

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43							P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle														Item Number / Title [DODIC]: F76740 / STANDOFF ACTIVATED VOLCANO OBSTACLE (SAVO), XM343																					
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2023														Fiscal Year 2024														B A L A N C E							
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023														Calendar Year 2024																					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P												
COMPLETE ROUND TACTICAL																																										
	1	2022	ARMY	12	0	12															A -	-	-	-	-	-	12															0
	1	2023	ARMY	13	0	13															A -	-	-	-	-	-	13															0
	1	2024	ARMY	475	0	475															A -														-	-	-	-	-	-	475	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P												

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023																	
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43										P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle										Item Number / Title [DODIC]: F76740 / STANDOFF ACTIVATED VOLCANO OBSTACLE (SAVO), XM343																	
Cost Elements (Units in Each)							Fiscal Year 2025										Fiscal Year 2026													BALANCE							
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025										Calendar Year 2026																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P						
COMPLETE ROUND TACTICAL																																					
	1	2022	ARMY	12	12	0																															0
	1	2023	ARMY	13	13	0																															0
	1	2024	ARMY	475	0	475	-	100	100	100	100	75																									0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2024 Army								Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43				P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle				Item Number / Title [DODIC]: F76740 / STANDOFF ACTIVATED VOLCANO OBSTACLE (SAVO), XM343			

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD	5	60	100	2	2	6	8	2	6	8	14

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43						P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle						Item Number / Title [DODIC]: F78310 / CLOSE TERRAIN SHAPING OBSTACLE (CTSO), XM204						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				5.994		30.076		20.900		37.964		-		37.964				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				5.994		30.076		20.900		37.964		-		37.964				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				5.994		30.076		20.900		37.964		-		37.964				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Thousands)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND TACTICAL ^(†)	-	-	-	194.043	117	22.703	-	-	-	156.589	207	32.414	-	-	-	156.589	207	32.414
COMPLETE ROUND TRAINER ^(†)	-	-	-	21.947	38	0.834	-	-	-	-	-	-	-	-	-	-	-	-
Partial Task Trainer	-	-	-	-	-	-	-	-	-	0.668	299	0.200	-	-	-	0.668	299	0.200
Subtotal: Recurring Cost	-	-	-	-	-	23.537	-	-	-	-	-	32.614	-	-	-	-	-	32.614
Non Recurring Cost																		
Facilitization	-	-	4.882	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Contractor Failure investigation/ Corrective Action	-	-	-	-	-	-	-	-	9.082	-	-	-	-	-	-	-	-	-
Contractor NRE for Production Verification Test (PVT) build	-	-	-	-	-	-	-	-	1.500	-	-	-	-	-	-	-	-	-
Contractor Production Verification Test (PVT) Support	-	-	-	-	-	-	-	-	1.500	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	4.882	-	-	-	-	-	12.082	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	4.882	-	-	23.537	-	-	12.082	-	-	32.614	-	-	-	-	-	32.614
Support - Acceptance Testing Cost																		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43						P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle						Item Number / Title [DODIC]: F78310 / CLOSE TERRAIN SHAPING OBSTACLE (CTSO), XM204						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
First Article Test	-	-	0.941	-	-	2.668	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.941	-	-	2.668	-	-	-	-	-	-	-	-	-	-	-	-
Support - New Equipment Training (NET) Cost																		
Equipment	-	-	-	-	-	0.499	-	-	0.250	-	-	0.250	-	-	-	-	-	0.250
Subtotal: Support - New Equipment Training (NET) Cost	-	-	-	-	-	0.499	-	-	0.250	-	-	0.250	-	-	-	-	-	0.250
Support - Production Engineering Cost																		
Production Engineering	-	-	0.171	-	-	3.372	-	-	5.468	-	-	5.000	-	-	-	-	-	5.000
Subtotal: Support - Production Engineering Cost	-	-	0.171	-	-	3.372	-	-	5.468	-	-	5.000	-	-	-	-	-	5.000
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-
Subtotal: Support - Study & Analysis Cost	-	-	-	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-
Support - Support Equipment Cost																		
Test and Measurement Equipment	-	-	-	-	-	-	-	-	0.800	-	-	0.100	-	-	-	-	-	0.100
Subtotal: Support - Support Equipment Cost	-	-	-	-	-	-	-	-	0.800	-	-	0.100	-	-	-	-	-	0.100
Support - System Test and Evaluation Cost																		
Test and Evaluation Support	-	-	-	-	-	-	-	-	2.100	-	-	-	-	-	-	-	-	-
Subtotal: Support - System Test and Evaluation Cost	-	-	-	-	-	-	-	-	2.100	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	5.994	-	-	30.076	-	-	20.900	-	-	37.964	-	-	-	-	-	37.964
(†) indicates the presence of a P-5a																		

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43				P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle				Item Number / Title [DODIC]: F78310 / CLOSE TERRAIN SHAPING OBSTACLE (CTSO), XM204				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND TACTICAL ^(†)		2022	Textron Defense Systems / Wilmington, MA	SS / FFP	Picatinny Arsenal, NJ	Aug 2022	Aug 2024	117	194.043	N		
COMPLETE ROUND TACTICAL ^(†)		2024	Textron Defense Systems / Wilmington, MA	SS / FFP	Picatinny Arsenal, NJ	Jan 2024	Jan 2025	207	156.589	N		
COMPLETE ROUND TRAINER		2022	Textron Defense Systems / Wilmington, MA	SS / FFP	Picatinny Arsenal, NJ	Aug 2022	Jul 2024	38	21.947	N		

^(†) indicates the presence of a P-21

Remarks:
initial manufacturing leadtime of 25 months on production contract is caused by a government-directed stop work order after the Government determined that the current configuration is not ready for First Article Test (FAT). Upon successful production verification testing, contractor will continue producing and delivering the capability.

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43										P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle										Item Number / Title [DODIC]: F78310 / CLOSE TERRAIN SHAPING OBSTACLE (CTSO), XM204															
Cost Elements (Units in Each)							Fiscal Year 2022										Fiscal Year 2023													B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022										Calendar Year 2023																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P				
COMPLETE ROUND TACTICAL																																			
	1	2022	ARMY	117	0	117											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117
	1	2024	ARMY	207	0	207																								207					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43										P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle										Item Number / Title [DODIC]: F78310 / CLOSE TERRAIN SHAPING OBSTACLE (CTSO), XM204													
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2024													Fiscal Year 2025													B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
COMPLETE ROUND TACTICAL																																	
	1	2022	ARMY	117	0	117	-	-	-	-	-	-	-	-	-	-	17	17	17	17	17	17	15									0	
	1	2024	ARMY	207	0	207				A	-	-	-	-	-	-	-	-	-	-	-	6	6	6	7	23	23	23	23	23	67		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43										P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle										Item Number / Title [DODIC]: F78310 / CLOSE TERRAIN SHAPING OBSTACLE (CTSO), XM204													
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2026										Fiscal Year 2027													B A L A N C E			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026										Calendar Year 2027																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P		
COMPLETE ROUND TACTICAL																																	
	1	2022	ARMY	117	117	0																											0
	1	2024	ARMY	207	140	67	23	23	21																								0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 43					P-1 Line Item Number / Title: 0612E76740 / Close Terrain Shaping Obstacle				Item Number / Title [DODIC]: F78310 / CLOSE TERRAIN SHAPING OBSTACLE (CTSO), XM204			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Textron Defense Systems - Wilmington, MA	15	25	40	10	10	25	35	9	4	12	16

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets						P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types						
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	630.639	84.524	18.159	18.630	-	18.630	5.831	21.980	22.418	31.000	-	833.181
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	630.639	84.524	18.159	18.630	-	18.630	5.831	21.980	22.418	31.000	-	833.181
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	630.639	84.524	18.159	18.630	-	18.630	5.831	21.980	22.418	31.000	-	833.181
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: SSN E36412 / SHOULDER LAUNCHED INDIVIDUAL ASSAULT MUNITION(IAM) is a new start within the Shoulder Launched Munitions, All Types program in FY 2024 SSN E88401 / MUNITION, 83mm Bunker Defeat(BDM), Rkt&Lnchr, M141 is a new start within the Shoulder Launched Munitions, All Types program in FY 2024 This budget line includes Shoulder Launched Munitions, All Types. (E36101) Launcher and Cartridge 84MM M136A1 (AT4CS-RS) - The AT4CS-RS is the Army's primary shoulder launched, lightweight, anti-armor weapon in support of the joint, multi-domain, high intensity conflicts and near-peer threats. The AT4CS-RS is a one-shot disposable system consisting of a self-contained launch tube and a free-flight, fin-stabilized 84mm high explosive Anti-Armor warhead with the ability to defeat light armor targets. The AT4CS-RS can be fired from a protected area or enclosed space during close combat operations. The AT4CS-RS supports the Army Strategy Line of Effort 1 by enabling operational readiness. This item is Code A, approved for service use. (E36403) CTG, 7.62MM Tracer, F/SUBCAL ADPTR CARL GUSTAF - The 7.62MM Tracer round is a down-loaded special round intended for use with the SCA 553B sub-caliber adapter and is effective when firing at ranges up to 700m. The 7.62MM Tracer enables the Soldier to make it possible to raise the level of proficiency and reduce training costs to a low level both at the firing range and during live firing exercises. The 7.62MM Tracer supports the Army Strategy Line of Effort 1 by enabling operational readiness. This item is Code A, approved for service use. (E36405) CTG, Gun, HE 441D, 84MM CARL GUSTAF (MAAWS) - The HE 441D (High Explosive 84MM) Multi-Role Anti-Armor Anti-Personnel Weapon System (MAAWS) system is used for combating troops in the open, behind cover, or in slit trenches as well as soft-skinned vehicles and similar types of targets. The 84MM HE 441D can be set for impact or air burst detonation. The 84MM HE 441D supports the Army Strategy Line of Effort 1 by enabling operational readiness. This item is Code A, approved for service use. (E36406) CTG, Gun, TGT PRAC-TR 141, 84MM CARL GUSTAF (MAAWS) - The 84 MM TPT 141 (Target Practice Tracer) is an inert full caliber training round that is aerodynamically stabilized in flight and fitted with a tracer that is visible throughout the flight up to 400 meters. The 84 MM TPT 141 supports the Army Strategy Line of Effort 1 by enabling operational readiness. This item is Code A, approved for service use. (E36409) CTG, 84mm Gun, HE programmable, CARLGSTF (MAAWS) - The HE 441E Programmable Airburst Round is an improved version of the HE 441D. The HE 441E will be programmed when loaded into the new lightweight M3A1 MAAWS equipped with the Fire Control System 13 - Rate Estimator (FCS13-RE). This is expected to result in a significant increase accuracy, airburst timing and lethality against personnel in defilade. The HE 441E supports the Army Strategy Line of Effort 2 by enabling Soldier Lethality modernization priorities. This item is Code A, approved for service use.												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets		P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E36412) SHOULDER LAUNCHED INDIVIDUAL ASSAULT MUNITION (IAM): The Individual Assault Munition (IAM) system consists of the tactical XM919 IAM munition and training devices including the XM922 sub-caliber trainer, XM922 sub-caliber tracer ammunition, Field Handling Trainer (FHT), Field Tactical Trainer (FTT) and Soldier Virtual Trainers (SVT). This solution will combine the capabilities of the existing Bunker Defeat Munition (BDM) and the Anti-Tank 4 Confined Space - Reduced Sensitivity (AT4CS-RS), eliminating the mission risk associated with having to choose between two different capability SLMs, reduces the logistics and training burdens associated with multiple systems. The tactical XM919 IAM supports the close fight in urban and complex terrain, allowing Soldiers a fire from enclosure capability to defeat field expedient structures such as earth and timber bunkers, reinforced concrete, adobe and triple brick walls with behind the wall lethality effects as well as defeating light armored vehicles. The IAM training devices provide training capability to increase the Soldier's proficiency and integration of the XM919 tactical system into combat operations. The XM919 IAM supports the Army Strategy Line of Effort 2 by enabling Soldier Lethality modernization priorities , by reducing Soldier load, while providing tactical innovation capable of extending overmatch against peer/near-peer adversaries in a joint, multi-domain, high-intensity conflict. This item will be Code A, approved for service use. Type Classification-Standard is scheduled for 3QFY25.</p> <p>(E36901) ROCKET, PRACTICE, 21MM SUBCALIBER - The 21MM Subcaliber for Shoulder Launched Munitions (SLM) simulates the firing of unguided shoulder fired munitions and is an enabler for Shoulder Launch Munition. The 21MM Subcaliber supports the Army's modernization priorities in support of the National Defense Strategy. The 21MM Subcaliber training round simulates the tactical munitions flight trajectory, but with less noise and back blast. It is currently used by Navy and Marine Corps to simulate the M72 Light Anti-tank Weapon System (LAW). It has also been adapted to the M141 Bunker Defeat Munition (BDM) and issued in New Equipment Training (NET)/Mobile Training Teams (MTT). The 21MM Subcaliber supports the Army Strategy Line of Effort 1 by enabling operational readiness. This item is Code A, approved for service use.</p> <p>(E88401) BUNKER DEFEAT MUNITION (BDM) - This is a new start. The Bunker Defeat Munition (BDM) is a single-shot, disposable, shoulder launched rocket propelled munition used to defeat earth and timber field fortifications (bunkers) out to 250 meters utilized in support of the joint, multi-domain, high intensity conflict and near-peer threats. The system is also capable of defeating lightly armored vehicles and breaches masonry walls using its 83 millimeter high explosive, dual-purpose rocket. The BDM supports the Army Strategy Line of Effort 1 by enabling operational readiness. The item is Code A, approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets						P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types				
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E36101 / MUNITION, 84mm Shldr Lnchd, AT-4CS(Confined Space) [CA30]	P-5a	A		- / 215.592	- / 74.300	- / 0.767	- / 0.030	- / -	- / 0.030
P-5	E36403 / CTG, 7.62mm w/Tracer f/SUBCAL ADPTR553B CARLGSTF [A254]	P-5a	A		- / 1.352	- / 0.002	- / 0.181	- / 0.006	- / -	- / 0.006
P-5	E36405 / CTG, 84mm Gun, HE 441D IM, CARLGSTF (MAAWS) [CA27]	P-5a	A		- / 20.422	- / 0.807	- / 4.477	- / -	- / -	- / -
P-5	E36406 / CTG, 84mm Gun, TGT PRAC-TR 141, CARLGSTF (MAAWS) [CA10]	P-5a	A		- / 8.322	- / -	- / -	- / 6.013	- / -	- / 6.013
P-5	E36409 / CTG, 84mm Gun, HE programmable, CARLGSTF (MAAWS)	P-5a	A		- / -	- / 9.415	- / 10.676	- / -	- / -	- / -
P-5	E36412 / SHOULDER LAUNCHED INDIVIDUAL ASSAULT MUNITION(IAM)	P-5a, P-21	A		- / -	- / -	- / -	- / 12.051	- / -	- / 12.051
P-5	E36901 / ROCKET, 21mm Subcaliber Practice Trainer, f/SLM [HA21]	P-5a	A		- / 12.114	- / -	- / 2.058	- / 0.078	- / -	- / 0.078
P-5	E88401 / MUNITION, 83mm Bunker Defeat(BDM), Rkt&Lnchr, M141 [HA08]		A		- / 372.837	- / -	- / -	- / 0.452	- / -	- / 0.452
P-40	Total Gross/Weapon System Cost				- / 630.639	- / 84.524	- / 18.159	- / 18.630	- / -	- / 18.630
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. FY 2024 Total Base dollars in the amount of \$18.630 million supports the procurement of six Shoulder Launched Munitions items. (E36101) Launcher and Cartridge 84MM M136A1 (AT4CS-RS) - This is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goal. FY 2024 Base procurement dollars in the amount of \$0.030 million supports engineering for items in production. Type Classification Date: 2009 (E36403) CTG, 7.62MM TRACER 553 F/SUBCAL ADAPTR CARL GUSTAF - This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base dollars in the amount of \$0.006 million supports engineering for items in production for the enduring COCOM requirement to deter potential adversaries and support the European Deterrence Initiative. This is a decrease of \$0.175 million from the FY 2023 enacted level. Type Classification Date: 2017 (E36405) CTG, Gun, HE 441D, 84MM CARL GUSTAF (MAAWS) - This is a training standard item used in both training and combat. There is no FY 2024 budget request for this item.										

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets		P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
Type Classification Date: 2017		
(E36406) CTG, Gun, TGT PRAC-TR 141, 84MM CARL GUSTAF (MAAWS) - This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$6.013 million supports the procurement of 7,838 Rounds. Type Classification Date: 2017		
(E36409) CTG, 84mm Gun, HE programmable, CARLGSTF (MAAWS) - This is a training standard item used in both training and combat. There is no FY 2024 budget request for this item. Type Classification Date: 2023		
(E36412) SHOULDER LAUNCHED INDIVIDUAL ASSAULT MUNITION (IAM) - This is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goal. FY 2024 Base procurement dollars in the amount of \$12.051 million supports the procurement of 535 Rounds. E36412 is a new start in FY 2024. Type Classification Date: 3QFY25		
(E36901) ROCKET, PRACTICE, 21MM SUBCALIBER for Shoulder Launched Munitions (SLM) - This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.078 million supports engineering for items in production. Type Classification Date: 1993		
(E88401) BUNKER DEFEAT MUNITION, 83mm Rocket & Launcher, M141 - This is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.452 million supports engineering for items in production. E88401 is a new start in FY 2024. Type Classification Date: 2008		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45						P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types						Item Number / Title [DODIC]: E36101 / MUNITION, 84mm Shldr Lnchd, AT-4CS(Confined Space) [CA30]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				215.592		74.300		0.767		0.030		-		0.030				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				215.592		74.300		0.767		0.030		-		0.030				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				215.592		74.300		0.767		0.030		-		0.030				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	6,768.56	30,434	205.994	2,806.08	25,794	72.380	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	205.994	-	-	72.380	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	205.994	-	-	72.380	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.133	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
First Article Test	-	-	0.211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.344	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Production Qualification Test	-	-	0.064	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	0.064	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	9.190	-	-	1.920	-	-	0.767	-	-	0.030	-	-	-	-	-	0.030
Subtotal: Support - Production Engineering Cost	-	-	9.190	-	-	1.920	-	-	0.767	-	-	0.030	-	-	-	-	-	0.030
Gross/Weapon System Cost	-	-	215.592	-	-	74.300	-	-	0.767	-	-	0.030	-	-	-	-	-	0.030

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45	P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types	Item Number / Title [DODIC]: E36101 / MUNITION, 84mm Shldr Lnchd, AT-4CS(Confined Space) [CA30]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<div>(†) indicates the presence of a P-5a</div>		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45				P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types				Item Number / Title [DODIC]: E36101 / MUNITION, 84mm Shldr Lnchd, AT-4CS(Confined Space) [CA30]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	SAAB DYNAMICS AB / KARLSKOGA, SWEDEN	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2022	Sep 2023	25,794	2,806.08	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45						P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types						Item Number / Title [DODIC]: E36403 / CTG, 7.62mm w/Tracer f/ SUBCAL ADPTR553B CARLGSTF [A254]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				1.352		0.002		0.181		0.006		-		0.006				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				1.352		0.002		0.181		0.006		-		0.006				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				1.352		0.002		0.181		0.006		-		0.006				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	11.18	116,871	1.307	-	-	-	2.81	57,341	0.161	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	1.307	-	-	-	-	-	0.161	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	1.307	-	-	-	-	-	0.161	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.045	-	-	0.002	-	-	0.020	-	-	0.006	-	-	-	-	-	0.006
Subtotal: Support - Production Engineering Cost	-	-	0.045	-	-	0.002	-	-	0.020	-	-	0.006	-	-	-	-	-	0.006
Gross/Weapon System Cost	-	-	1.352	-	-	0.002	-	-	0.181	-	-	0.006	-	-	-	-	-	0.006
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45				P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types					Item Number / Title [DODIC]: E36403 / CTG, 7.62mm w/Tracer f/ SUBCAL ADPTR553B CARLGSTF [A254]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2023	SAAB DYNAMICS AKTIEBOLAG / KARLSKOGA, SWEDEN	Option / CPFF	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2024	57,341	2.81	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45						P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types						Item Number / Title [DODIC]: E36405 / CTG, 84mm Gun, HE 441D IM, CARLGSTF (MAAWS) [CA27]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (Units in Each)				-		-		-		-		-		-						
Gross/Weapon System Cost (\$ in Millions)				20.422		0.807		4.477		-		-		-						
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-						
Net Procurement (P-1) (\$ in Millions)				20.422		0.807		4.477		-		-		-						
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-						
Total Obligation Authority (\$ in Millions)				20.422		0.807		4.477		-		-		-						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (\$ in Millions)				-		-		-		-		-		-						
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-						
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
COMPLETE ROUND ^(†)	2,455.85	7,702	18.915	2,609.19	159	0.415	2,739.65	1,431	3.920	-	-	-	-	-	-	-	-	-		
Subtotal: Recurring Cost	-	-	18.915	-	-	0.415	-	-	3.920	-	-	-	-	-	-	-	-	-		
Subtotal: Hardware Cost	-	-	18.915	-	-	0.415	-	-	3.920	-	-	-	-	-	-	-	-	-		
Support - Acceptance Testing Cost																				
Acceptance Test	-	-	0.208	-	-	0.060	-	-	0.063	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Acceptance Testing Cost	-	-	0.208	-	-	0.060	-	-	0.063	-	-	-	-	-	-	-	-	-		
Support - Production Engineering Cost																				
Production Engineering	-	-	1.299	-	-	0.332	-	-	0.494	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Production Engineering Cost	-	-	1.299	-	-	0.332	-	-	0.494	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Cost	-	-	20.422	-	-	0.807	-	-	4.477	-	-	-	-	-	-	-	-	-		
(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45				P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types				Item Number / Title [DODIC]: E36405 / CTG, 84mm Gun, HE 441D IM, CARLGSTF (MAAWS) [CA27]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	SAAB DYNAMICS AB / KARLSKOGA, SWEDEN	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2022	Mar 2023	159	2,609.19	Y		
COMPLETE ROUND		2023	SAAB DYNAMICS AKTIEBOLAG / KARLSKOGA, SWEDEN	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2024	1,431	2,739.65	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45						P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types						Item Number / Title [DODIC]: E36406 / CTG, 84mm Gun, TGT PRAC-TR 141, CARLGSTF (MAAWS) [CA10]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				8.322		-		-		6.013		-		6.013				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				8.322		-		-		6.013		-		6.013				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				8.322		-		-		6.013		-		6.013				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	492.15	14,252	7.014	-	-	-	-	-	-	555.31	7,838	4.353	-	-	-	555.31	7,838	4.353
Subtotal: Recurring Cost	-	-	7.014	-	-	-	-	-	-	-	-	4.353	-	-	-	-	-	4.353
Subtotal: Hardware Cost	-	-	7.014	-	-	-	-	-	-	-	-	4.353	-	-	-	-	-	4.353
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.109	-	-	-	-	-	-	-	-	0.030	-	-	-	-	-	0.030
Subtotal: Support - Acceptance Testing Cost	-	-	0.109	-	-	-	-	-	-	-	-	0.030	-	-	-	-	-	0.030
Support - Production Engineering Cost																		
Production Engineering	-	-	1.199	-	-	-	-	-	-	-	-	1.630	-	-	-	-	-	1.630
Subtotal: Support - Production Engineering Cost	-	-	1.199	-	-	-	-	-	-	-	-	1.630	-	-	-	-	-	1.630
Gross/Weapon System Cost	-	-	8.322	-	-	-	-	-	-	-	-	6.013	-	-	-	-	-	6.013
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45				P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types				Item Number / Title [DODIC]: E36406 / CTG, 84mm Gun, TGT PRAC- TR 141, CARLGSTF (MAAWS) [CA10]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2024	SAAB DYNAMICS AKTIEBOLAG / KARLSKOGA, SWEDEN	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	7,838	555.31	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45						P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types						Item Number / Title [DODIC]: E36409 / CTG, 84mm Gun, HE programmable, CARLGSTF (MAAWS)						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		9.415		10.676		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		9.415		10.676		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		9.415		10.676		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	-	-	-	2,328.00	3,980	9.265	2,328.00	4,521	10.525	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	9.265	-	-	10.525	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	-	-	-	9.265	-	-	10.525	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.021	-	-	0.021	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.021	-	-	0.021	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.129	-	-	0.130	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.129	-	-	0.130	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	9.415	-	-	10.676	-	-	-	-	-	-	-	-	-
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45			P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types					Item Number / Title [DODIC]: E36409 / CTG, 84mm Gun, HE programmable, CARLGSTF (MAAWS)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	SAAB DYNAMICS AB / KARLSKOGA, SWEDEN	Option / FFP	Picatinny Arsenal, NJ	Dec 2022	Mar 2024	3,980	2,328.00	Y		
Complete Round		2023	SAAB DYNAMICS AB / KARLSKOGA, SWEDEN	Option / FFP	Plcatinny Arsenal, NJ	Mar 2023	Sep 2024	4,521	2,328.00	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45							P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types						Item Number / Title [DODIC]: E36412 / SHOULDER LAUNCHED INDIVIDUAL ASSAULT MUNITION(IAM)					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		-		-		12.051		-		12.051				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				-		-		-		12.051		-		12.051				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				-		-		-		12.051		-		12.051				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	9,514.00	535	5.090	-	-	-	9,514.00	535	5.090
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	5.090	-	-	-	-	-	5.090
Non Recurring Cost																		
First Article Test (FAT) Hardware	-	-	-	-	-	-	-	-	-	9,514.00	125	1.189	-	-	-	9,514.00	125	1.189
Production Verification Test (PVT) Hardware	-	-	-	-	-	-	-	-	-	9,514.00	331	3.149	-	-	-	9,514.00	331	3.149
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	4.338	-	-	-	-	-	4.338
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	9.428	-	-	-	-	-	9.428
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	-	-	-	0.569	-	-	-	-	-	0.569
Acceptance Test	-	-	-	-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	0.100
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	-	-	-	0.669	-	-	-	-	-	0.669
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	1.601	-	-	-	-	-	1.601
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	1.601	-	-	-	-	-	1.601
Support - System Test and Evaluation Cost																		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45					P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types					Item Number / Title [DODIC]: E36412 / SHOULDER LAUNCHED INDIVIDUAL ASSAULT MUNITION(IAM)									
ID Code (A=Service Ready, B=Not Service Ready) : A																			

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Test and Evaluation Support	-	-	-	-	-	-	-	-	-	-	-	0.353	-	-	-	-	-	0.353
Subtotal: Support - System Test and Evaluation Cost	-	-	-	-	-	-	-	-	-	-	-	0.353	-	-	-	-	-	0.353
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	12.051	-	-	-	-	-	12.051

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45				P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types					Item Number / Title [DODIC]: E36412 / SHOULDER LAUNCHED INDIVIDUAL ASSAULT MUNITION(IAM)			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2024	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Apr 2024	Apr 2025	535	9,514.00	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45							P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types															Item Number / Title [DODIC]: E36412 / SHOULDER LAUNCHED INDIVIDUAL ASSAULT MUNITION(IAM)															
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2024															Fiscal Year 2025															B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024															Calendar Year 2025															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
COMPLETE ROUND																																					
	1	2024	ARMY		535	0	535							A	-	-	-	-	-	-	-	-	-	-	-	-	-	535							0		
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2024 Army								Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45					P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types				Item Number / Title [DODIC]: E36412 / SHOULDER LAUNCHED INDIVIDUAL ASSAULT MUNITION(IAM)		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	200	1,500	3,000	6	6	12	18	6	6	12	18

Remarks:
Production Rates based on current Market Research.
FAT quantity of 125 units will be produced by September 2024 and consumed at the vendors facility during FAT.
PVT quantify of 331 units will be delivered by December 2024.
Fielding quantity of 535 units will be delivered in one lot in March 2025. Delivery of a single lot is most economical due to the shipping costs and logistics associated with the capability.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45						P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types						Item Number / Title [DODIC]: E36901 / ROCKET, 21mm Subcaliber Practice Trainer, f/SLM [HA21]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				12.114		-		2.058		0.078		-		0.078				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				12.114		-		2.058		0.078		-		0.078				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				12.114		-		2.058		0.078		-		0.078				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	245.10	44,782	10.976	-	-	-	167.70	10,976	1.841	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	10.976	-	-	-	-	-	1.841	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	10.976	-	-	-	-	-	1.841	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	1.138	-	-	-	-	-	0.217	-	-	0.078	-	-	-	-	-	0.078
Subtotal: Support - Production Engineering Cost	-	-	1.138	-	-	-	-	-	0.217	-	-	0.078	-	-	-	-	-	0.078
Gross/Weapon System Cost	-	-	12.114	-	-	-	-	-	2.058	-	-	0.078	-	-	-	-	-	0.078
†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45				P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types				Item Number / Title [DODIC]: E36901 / ROCKET, 21mm Subcaliber Practice Trainer, f/SLM [HA21]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2023	NAMMO DEFENSE SYSTEMS INC / MESA, AZ	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2023	Dec 2023	10,976	167.70	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45						P-1 Line Item Number / Title: 2348EA4000 / Shoulder Launched Munitions, All Types						Item Number / Title [DODIC]: E88401 / MUNITION, 83mm Bunker Defeat(BDM), Rkt&Lnchr, M141 [HA08]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				372.837		-		-		0.452		-		0.452				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				372.837		-		-		0.452		-		0.452				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				372.837		-		-		0.452		-		0.452				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
BUNKER DEFEAT MUNITION (BDM)	38,516.00	9,540	367.443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	367.443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	367.443	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	5.394	-	-	-	-	-	-	-	-	0.452	-	-	-	-	-	0.452
Subtotal: Support - Production Engineering Cost	-	-	5.394	-	-	-	-	-	-	-	-	0.452	-	-	-	-	-	0.452
Gross/Weapon System Cost	-	-	372.837	-	-	-	-	-	-	-	-	0.452	-	-	-	-	-	0.452

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets						P-1 Line Item Number / Title: 3246E37300 / Rocket, Hydra 70, All Types						
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A					Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,263.886	117.536	171.697	87.293	-	87.293	71.429	93.758	74.619	74.619	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,263.886	117.536	171.697	87.293	-	87.293	71.429	93.758	74.619	74.619	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,263.886	117.536	171.697	87.293	-	87.293	71.429	93.758	74.619	74.619	Continuing	Continuing
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Aviation Rockets and Small Guided Munitions Product Office is the executive procurement agent for all services and Foreign Military customers, for all variants of aviation rockets. This budget line procures all aviation rockets and small guided munition types in support of Army operational, training and war reserve requirements. The systems provide combat overmatch capability and ensure the availability of munitions to support combat operations. Aviation rockets and small guided munitions are used on manned and unmanned platforms by Army, Navy, Air Force, Special Operations and Foreign Military aircraft. The unguided systems perform a number of roles including anti-materiel, anti-personnel, air-to-ground suppression and illumination. The guided systems are used to provide increased accuracy over the unguided munitions in precision strikes against lightly armored and soft point targets enabling better conformance to restricted rules of engagement. This Hydra-70 rocket funding supports the entire aviation rocket system and small guided munitions to include resolution of obsolescence, safety, insensitive munitions, reliability, weapon integration activities, test sets, engineering changes, production issues, lifetime buys of obsolete components and guidance section testing and repair kits.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets						P-1 Line Item Number / Title: 3246E37300 / Rocket, Hydra 70, All Types				
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided	P-5a, P-21			- / 774.572	- / 105.939	- / 160.563	- / 86.866	- / -	- / 86.866
P-5	E37413 / Aviation Rocket Procurement, Guided	P-5a			- / 489.314	- / 11.597	- / 11.134	- / 0.427	- / -	- / 0.427
P-40	Total Gross/Weapon System Cost				- / 1,263.886	- / 117.536	- / 171.697	- / 87.293	- / -	- / 87.293
<p>*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>										
<p>Justification: The FY 2024 Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout the life-cycle.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>FY 2024 Hydra-70 Base funding of \$63.314M will procure 22,983 unguided Hydra-70 Rockets and 0 guided Hydra-70 Rockets.</p> <p>FY 2024 Overseas Operation Cost (OOC) procurement dollars in the amount of \$23.979 million will procure 10,311 unguided Hydra-70 Rockets and 14 guided Hydra-70 Rockets.</p> <p>The decrease in funding from FY 2023 to FY 2024 is due to healthy inventory levels.</p> <p>The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or Foreign Military Sales (FMS) to increase procurement of Hydra-70 rockets, and/or address safety, reliability, affordability, and/or obsolescence.</p>										

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45						P-1 Line Item Number / Title: 3246E37300 / Rocket, Hydra 70, All Types					Item Number / Title [DODIC]: E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				774.572		105.939		160.563		86.866		-		86.866				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				774.572		105.939		160.563		86.866		-		86.866				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				774.572		105.939		160.563		86.866		-		86.866				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Complete Round ^(†)	943.59	614,827	580.145	1,314.24	56,299	73.990	1,520.25	70,103	106.574	1,550.66	33,294	51.628	-	-	-	1,550.66	33,294	51.628
Radford Army Ammunition Plant (AAP) Industrial Facilities	-	-	84.467	-	-	16.178	-	-	38.234	-	-	18.858	-	-	-	-	-	18.858
Engineering Services	-	-	4.056	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	668.668	-	-	90.168	-	-	144.808	-	-	70.486	-	-	-	-	-	70.486
Subtotal: Flyaway Cost	-	-	668.668	-	-	90.168	-	-	144.808	-	-	70.486	-	-	-	-	-	70.486
Support - Industrial Facilities Cost																		
Radford Army Ammunition Plant (AAP)	-	-	44.485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Industrial Facilities Cost	-	-	44.485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	40.550	-	-	9.277	-	-	6.811	-	-	7.257	-	-	-	-	-	7.257
Subtotal: Support - Production Engineering Cost	-	-	40.550	-	-	9.277	-	-	6.811	-	-	7.257	-	-	-	-	-	7.257
Support - Program Management Cost																		
Government Management	-	-	20.869	-	-	6.494	-	-	8.944	-	-	9.123	-	-	-	-	-	9.123

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023																			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45					P-1 Line Item Number / Title: 3246E37300 / Rocket, Hydra 70, All Types										Item Number / Title [DODIC]: E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided														
ID Code (A=Service Ready, B=Not Service Ready) :															MDAP/MAIS Code:														

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Program Management Cost</i>	-	-	20.869	-	-	6.494	-	-	8.944	-	-	9.123	-	-	-	-	-	9.123
Gross/Weapon System Cost	-	-	774.572	-	-	105.939	-	-	160.563	-	-	86.866	-	-	-	-	-	86.866

Remarks:

The Program Office is under a Section 806 of the National Defense Authorization Act for Fiscal Year 1999 (Public Law 105-261) restriction to procure MK90 Propellant Grain from Radford Army Ammunition Plant to maintain a facility, producer, manufacturer, or supplier for an essential item of ammunition.

The Radford Army Ammunition Plant (AAP) Industrial Facilities costs fund the operation and maintenance of the plant to include requirements for maintenance, security, safety, utilities, environmental compliance, and etc. These costs are part of the product price of the MK90 grain used in the Hydra rocket motor; therefore, these costs fluctuate as quantities fluctuate.

Support - Production Engineering Cost are shared between E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided and E37413 / Aviation Rocket Procurement, Guided baby lines.

PB24 FY 2022 Complete Round adjustments are based on actualized costs.

PB24 FY 2023 Complete Round adjustments are based on projected unit costs due to procuring at Minimum Sustainment Rate (MSR).

PB24 FY 2022 Radford Army Ammunition Plant (AAP) Industrial Facilities adjustments are based on actualized costs.

PB24 FY 2023 Radford Army Ammunition Plant (AAP) Industrial Facilities adjustments are based on updated data due to new contract award.

While the Hydra-70 overall Production Engineering and Program Management costs maintain a consistent level of effort each year, these costs are allocated to all services on a pro-rata share of quantities procured. This can result in a year-to-year fluctuation of the Army's share.

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45				P-1 Line Item Number / Title: 3246E37300 / Rocket, Hydra 70, All Types				Item Number / Title [DODIC]: E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round ^(†)		2021	General Dynamics / Williston, VT	C / FFP	Redstone Arsenal, AL	Apr 2021	Feb 2023	125,339	890.22	Y		Aug 2018
Complete Round ^(†)		2022	General Dynamics / Williston, VT	C / FFP	Redstone Arsenal, AL	Aug 2022	May 2024	56,299	1,314.24	Y		Aug 2018
Complete Round ^(†)		2023	General Dynamics / Williston, VT	C / FFP	Redstone Arsenal, AL	Mar 2023	Sep 2024	70,103	1,520.25	Y		Aug 2018
Complete Round ^(†)		2024	General Dynamics / Williston, VT	C / FFP	Redstone Arsenal, AL	Mar 2024	Sep 2025	33,294	1,550.66	Y		Aug 2018

(†) indicates the presence of a P-21

Remarks:

- QTY EA for delivery schedule for the P-5a.
- Contractor minimum sustainment rate for the total of all variants is 125,000 rockets annually.
- The Aviation Rockets and Small Guided Munitions Product Office is the executive procurement agent for all services and Foreign Military customers, for all variants of aviation rockets.
- FY 2020 new contract awarded 29 May 2020. New contract is base and 4 option years (FY 2020 - FY 2024).
- Other services and FMS customers are shown on the P-21 delivery schedule.
- C / FFP: Competitive / Firm Fixed Price

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45										P-1 Line Item Number / Title: 3246E37300 / Rocket, Hydra 70, All Types										Item Number / Title [DODIC]: E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided															
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2021										Fiscal Year 2022													B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021										Calendar Year 2022																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P				
Complete Round																																			
Prior Years Deliveries: 489488																																			
	1	2021	AF ^(‡)	1.323	.000	1.323							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.323			
	1	2021	ARMY	125.339	.000	125.339							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125.339			
	1	2021	FMS ^(‡)	25.836	.000	25.836							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.836			
	1	2021	NAVY ^(‡)	33.541	.000	33.541							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.541			
	1	2021	Total	186.039	.000	186.039							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	186.039			
	1	2022	AF ^(‡)	15.750	.000	15.750																											A -	-	15.750
	1	2022	ARMY	56.299	.000	56.299																											A -	-	56.299
	1	2022	FMS ^(‡)	6.768	.000	6.768																											A -	-	6.768
	1	2022	NAVY ^(‡)	40.320	.000	40.320																											A -	-	40.320
	1	2022	Total	119.137	.000	119.137																											-	-	119.137
	1	2023	AF ^(‡)	6.719	.000	6.719																												6.719	
	1	2023	ARMY	70.103	.000	70.103																												70.103	
	1	2023	NAVY ^(‡)	39.034	.000	39.034																												39.034	
	1	2023	Total	115.856	.000	115.856																												115.856	
	1	2024	AF ^(‡)	15.538	.000	15.538																												15.538	
	1	2024	ARMY	33.294	.000	33.294																												33.294	
	1	2024	NAVY ^(‡)	34.450	.000	34.450																												34.450	
	1	2024	Total	78.918	.000	78.918																												78.918	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2024 Army																							Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45										P-1 Line Item Number / Title: 3246E37300 / Rocket, Hydra 70, All Types													Item Number / Title [DODIC]: E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided													
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2023												Fiscal Year 2024													BALANCE				
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023															Calendar Year 2024														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
Complete Round																																				
Prior Years Deliveries: 489488																																				
	1	2021	AF ^(†)	1.323	.000	1.323	-	-	-	1.323	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000					
	1	2021	ARMY	125.339	.000	125.339	-	-	-	-	.017	-	-	7.392	1.980	20.640	24.660	20.640	22.620	11.082	4.020	-	6.749	-	-	-	-	-	-	-	5.539					
	1	2021	FMS ^(†)	25.836	.000	25.836	-	-	-	-	4.992	2.016	-	-	-	-	-	-	-	-	-	-	18.828	-	-	-	-	-	-	-	.000					
	1	2021	NAVY ^(†)	33.541	.000	33.541	-	-	-	6.000	-	-	10.000	-	-	6.000	-	-	6.000	-	5.541	-	-	-	-	-	-	-	-	-	.000					
	1	2021	Total	186.039	.000	186.039	-	-	-	7.323	5.009	2.016	10.000	7.392	1.980	26.640	24.660	20.640	28.620	11.082	9.561	-	25.577	-	-	-	-	-	-	-	5.539					
	1	2022	AF ^(†)	15.750	.000	15.750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.200	8.550					
	1	2022	ARMY	56.299	.000	56.299	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.555	-	-	-	7.817	43.927				
	1	2022	FMS ^(†)	6.768	.000	6.768	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.504	-	1.968	1.296				
	1	2022	NAVY ^(†)	40.320	.000	40.320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.640	-	-	8.320	-	-	11.360				
	1	2022	Total	119.137	.000	119.137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.640	4.555	-	11.824	-	16.985	65.133					
	1	2023	AF ^(†)	6.719	.000	6.719						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.360	3.359					
	1	2023	ARMY	70.103	.000	70.103						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.842	64.261				
	1	2023	NAVY ^(†)	39.034	.000	39.034						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.253	35.781				
	1	2023	Total	115.856	.000	115.856						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.455	103.401				
	1	2024	AF ^(†)	15.538	.000	15.538																					A -	-	-	-	-	-	-	-	-	15.538
	1	2024	ARMY	33.294	.000	33.294																					A -	-	-	-	-	-	-	-	-	33.294
	1	2024	NAVY ^(†)	34.450	.000	34.450																					A -	-	-	-	-	-	-	-	-	34.450
	1	2024	Total	78.918	.000	78.918																					-	-	-	-	-	-	-	-	-	78.918
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023												
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45										P-1 Line Item Number / Title: 3246E37300 / Rocket, Hydra 70, All Types										Item Number / Title [DODIC]: E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided												
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2025										Fiscal Year 2026														BALANCE	
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025										Calendar Year 2026															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
Complete Round																																
Prior Years Deliveries: 489488																																
	1	2021	AF ^(†)	1.323	1.323	.000	-	-	-	-	-																					.000
	1	2021	ARMY	125.339	119.800	5.539	-	-	2.120	-	3.419																					.000
	1	2021	FMS ^(†)	25.836	25.836	.000	-	-	-	-	-																					.000
	1	2021	NAVY ^(†)	33.541	33.541	.000	-	-	-	-	-																					.000
	1	2021	Total	186.039	180.500	5.539	-	-	2.120	-	3.419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
	1	2022	AF ^(†)	15.750	7.200	8.550	-	-	8.550	-	-																					.000
	1	2022	ARMY	56.299	12.372	43.927	-	10.032	5.418	18.204	10.273																					.000
	1	2022	FMS ^(†)	6.768	5.472	1.296	-	-	-	1.296	-																					.000
	1	2022	NAVY ^(†)	40.320	28.960	11.360	-	11.360	-	-	-																					.000
	1	2022	Total	119.137	54.004	65.133	-	21.392	13.968	19.500	10.273	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
	1	2023	AF ^(†)	6.719	3.360	3.359	3.359	-	-	-	-	-	-	-	-																.000	
	1	2023	ARMY	70.103	5.842	64.261	5.842	5.842	5.842	5.842	5.842	5.842	5.842	5.842	5.841																.000	
	1	2023	NAVY ^(†)	39.034	3.253	35.781	3.253	3.253	3.253	3.253	3.253	3.253	3.253	3.253	3.251																.000	
	1	2023	Total	115.856	12.455	103.401	12.454	9.095	9.095	9.095	9.095	9.095	9.095	9.095	9.095	9.092	-	-	-	-	-	-	-	-	-	-	-	-	-	.000		
	1	2024	AF ^(†)	15.538	.000	15.538	-	-	-	-	-	-	-	-	-	1.295	1.295	1.295	1.295	1.295	1.295	1.295	1.295	1.295	1.295	1.295	1.293		.000			
	1	2024	ARMY	33.294	.000	33.294	-	-	-	-	-	-	-	-	-	2.411	2.411	2.411	2.411	2.411	2.411	2.411	2.411	2.411	2.411	2.411	2.409		4.364			
	1	2024	NAVY ^(†)	34.450	.000	34.450	-	-	-	-	-	-	-	-	-	2.871	2.871	2.871	2.871	2.871	2.871	2.871	2.871	2.871	2.871	2.871	2.869		.000			
	1	2024	Total	78.918	.000	78.918	-	-	-	-	-	-	-	-	-	6.577	6.577	6.577	6.577	6.577	6.577	6.577	6.577	6.577	6.577	6.577	6.571	-	.000			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		

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Exhibit P-21, Production Schedule: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45					P-1 Line Item Number / Title: 3246E37300 / Rocket, Hydra 70, All Types				Item Number / Title [DODIC]: E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	General Dynamics - Williston, VT	125,000	330,000	330,000	7	6	18	24	7	6	18	24
<p>Remarks: Achieving MSR is reliant on multi-service and FMS procurements.</p> <p>A DCMA study conducted in FY 2022 identified a new MSR of 125,000.</p> <p>Procurement below MSR increases unit cost and increases risk to the base of responsive vendors and suppliers.</p> <p>MSR is not projected to be achieved in FY 2024.</p> <p>(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.</p> <p>"A" in the Delivery Schedule indicates the Contract Award Date.</p> <p>Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).</p>												

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45							P-1 Line Item Number / Title: 3246E37300 / Rocket, Hydra 70, All Types						Item Number / Title [DODIC]: E37413 / Aviation Rocket Procurement, Guided								
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity <i>(Units in Each)</i>				-			-			-			-			-			-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				489.314			11.597			11.134			0.427			-			0.427		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				489.314			11.597			11.134			0.427			-			0.427		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				489.314			11.597			11.134			0.427			-			0.427		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Flyaway Cost																					
Recurring Cost																					
Complete Round, Guidance Section ^(t)	21,963.21	18,982	416.906	23,747.00	377	8.953	24,763.00	377	9.336	25,220.93	14	0.353	-	-	-	25,220.93	14	0.353			
Complete Round, Unguided Section	1,186.36	16,413	19.472	3,747.08	377	1.413	4,223.96	377	1.592	4,712.66	14	0.066	-	-	-	4,712.66	14	0.066			
Radford Army Ammunition Plant (AAP) - Industrial Facilities	-	-	2.919	-	-	0.108	-	-	0.206	-	-	0.008	-	-	-	-	-	0.008			
Engineering Services	-	-	0.253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Recurring Cost	-	-	439.549	-	-	10.473	-	-	11.134	-	-	0.427	-	-	-	-	-	0.427			
Subtotal: Flyaway Cost	-	-	439.549	-	-	10.473	-	-	11.134	-	-	0.427	-	-	-	-	-	0.427			
Support - Industrial Facilities Cost																					
Radford Army Ammunition Plant (AAP)	-	-	7.010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Equipment Acquisition or Modernization	-	-	0.342	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Industrial Facilities Cost	-	-	7.352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Support - Production Engineering Cost																					
Production Engineering	-	-	24.611	-	-	1.123	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Production Engineering Cost	-	-	24.611	-	-	1.123	-	-	-	-	-	-	-	-	-	-	-	-			

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45							P-1 Line Item Number / Title: 3246E37300 / Rocket, Hydra 70, All Types						Item Number / Title [DODIC]: E37413 / Aviation Rocket Procurement, Guided					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Program Management Cost																		
Government Management	-	-	17.802	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Program Management Cost	-	-	17.802	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	489.314	-	-	11.597	-	-	11.134	-	-	0.427	-	-	-	-	-	0.427
Remarks: The Program Office is under a Section 806 of the National Defense Authorization Act for Fiscal Year 1999 (Public Law 105-261) restriction to procure MK90 Propellant Grain from Radford Army Ammunition Plant to maintain a facility, producer, manufacturer, or supplier for an essential item of ammunition. The Radford Army Ammunition Plant (AAP) Industrial Facilities costs fund the operation and maintenance of the plant to include requirements for maintenance, security, safety, utilities, environmental compliance, and etc. These costs are part of the product price of the MK90 grain used in the Hydra rocket motor; therefore, these costs fluctuate as quantities fluctuate. Support - Production Engineering Cost and Support - Program Management Cost are captured on E37412 / AMMO-Hydra, Aviation Rocket Procurement, Unguided line. (†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 45				P-1 Line Item Number / Title: 3246E37300 / Rocket, Hydra 70, All Types					Item Number / Title [DODIC]: E37413 / Aviation Rocket Procurement, Guided			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round, Guidance Section	✓	2021	BAE Systems / Nashua, NH	SS / FFP	Pax River, MD	May 2021	Mar 2023	240	23,381.00	Y		
Complete Round, Guidance Section		2022	BAE Systems / Nashua, NH	SS / FFP	Pax River, MD	May 2022	Apr 2023	377	23,747.00	Y		
Complete Round, Guidance Section		2023	BAE Systems / Nashua, NH	SS / FFP	Pax River, MD	May 2023	Apr 2024	377	24,763.00	Y		
Complete Round, Guidance Section		2024	BAE Systems / Nashua, NH	SS / FFP	Pax River, MD	May 2024	Apr 2025	14	25,220.93	Y		
Remarks: - QTY EA for delivery schedule. - Contract managed by Navy - SS / FFP: Sole Source / Firm Fixed Price												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition							P-1 Line Item Number / Title: 2420E61000 / CAD/PAD, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	165.104	4.597	7.643	6.564	-	6.564	6.558	7.573	7.569	7.569	-	213.177
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	165.104	4.597	7.643	6.564	-	6.564	6.558	7.573	7.569	7.569	-	213.177
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	165.104	4.597	7.643	6.564	-	6.564	6.558	7.573	7.569	7.569	-	213.177
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This budget line is for safety critical Cartridge Actuated Devices (CAD) and Propellant Actuated Devices (PAD), which are used on rotary winged Army aircraft. CAD/PADs support aircraft escape, fire suppression, and jettison systems. Items are subject to shelf and service life restrictions and, therefore, require replacement at specified intervals. CAD/PAD devices are procured in accordance with their shelf/service life and are made up of, but no limited to: MS81-87 Shielded Det Cord; MS94-97 Canopy Egress Assembly; MS91-92 Flexible Det Cord; MT06/DWEA Initiator Cartridge; SP02/03 Det Cord Assembly; WB53/MT20/TY60 Fire Bottle Cartridge; MD66/JM92 Stores Release Cartridge; MJ20 Thruster Assembly and Cartridge; MJ20 Inert Thruster without Cartridge; MJ21 Impulse Cartridge; MU02 Hoist Cutter Cartridge; MU34 Hoist Refire Kit; M514 Hoist Cutter Cartridge; DWGS Cable Cutter Assembly; JM96 Chinook Impulse Cartridge; MD65 Initiator Cartridge - Air Volcano stores release. CAD/PAD Procurements are awarded by the Navy Contracting Center in Mechanicsburg, PA and the Naval Surface Warfare Center (NSWC) in Indian Head.												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition						P-1 Line Item Number / Title: 2420E61000 / CAD/PAD, All Types				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	EA0003 / CAD/PAD, All Other	P-5a			- / 165.104	- / 4.597	- / 7.643	- / 6.564	- / -	- / 6.564
P-40	Total Gross/Weapon System Cost				- / 165.104	- / 4.597	- / 7.643	- / 6.564	- / -	- / 6.564
<p>*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>										
<p>Justification:</p> <p>The FY 2024 Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>FY 2024 Total Base procurement dollars of \$6.564M will be used for procurement of various CAD/PADs that need replacement due to limited shelf life and/or install life. The FY 2024 program is required to assure availability of replacement items when needed or for mandatory "time-change" procedures for already installed devices to avoid grounding aircraft or rendering aircraft partially mission capable. This funding is required to support fleet requirements that take into account the aircraft inventory, maintenance cycle, shelf/install life, procurement lead-times, and expenditures. Due the variability of these factors, actual CAD/PAD end items and the quantities procured may vary.</p>										

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Exhibit P-5, Cost Analysis: PB 2024 Army														Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: 2420E61000 / CAD/PAD, All Types							Item Number / Title [DODIC]: EA0003 / CAD/PAD, All Other							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (<i>Units in Each</i>)				-			-			-			-			-			-		
Gross/Weapon System Cost (<i>\$ in Millions</i>)				165.104			4.597			7.643			6.564			-			6.564		
Less PY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Net Procurement (P-1) (<i>\$ in Millions</i>)				165.104			4.597			7.643			6.564			-			6.564		
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Total Obligation Authority (<i>\$ in Millions</i>)				165.104			4.597			7.643			6.564			-			6.564		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
MS81 Shielded Det Cord ^(†)	755.02	565	0.427	-	-	-	-	-	-	1,228.51	120	0.147	-	-	-	1,228.51	120	0.147			
MS82 Shielded Det Cord ^(†)	789.58	690	0.545	-	-	-	-	-	-	1,228.51	120	0.147	-	-	-	1,228.51	120	0.147			
MS83 Shielded Det Cord ^(†)	768.68	615	0.473	-	-	-	-	-	-	1,228.51	100	0.123	-	-	-	1,228.51	100	0.123			
MS85 Shielded Det Cord ^(†)	789.58	690	0.545	-	-	-	-	-	-	1,228.51	120	0.147	-	-	-	1,228.51	120	0.147			
MS86 Shielded Det Cord ^(†)	768.61	616	0.473	-	-	-	-	-	-	1,228.51	100	0.123	-	-	-	1,228.51	100	0.123			
MS87 Shielded Det Cord ^(†)	768.61	616	0.473	-	-	-	-	-	-	1,228.51	100	0.123	-	-	-	1,228.51	100	0.123			
JN79 Canopy Egress Assembly	9,622.73	132	1.270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
JN80 Canopy Egress Assembly	9,622.73	132	1.270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
JN81 Canopy Egress Assembly	9,622.73	132	1.270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
JN82 Canopy Egress Assembly	9,622.73	132	1.270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
XW55 Delay Initiator	1,251.56	751	0.940	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: 2420E61000 / CAD/PAD, All Types						Item Number / Title [DODIC]: EA0003 / CAD/PAD, All Other					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
MJ21 Impulse Cartridge ^(†)	405.50	600	0.243	-	-	-	569.91	200	0.114	-	-	-	-	-	-	-	-	-
MS94 Window Cutting Assembly ^(†)	3,020.92	624	1.885	-	-	-	5,160.93	100	0.516	5,228.97	100	0.523	-	-	-	5,228.97	100	0.523
MS95 Window Cutting Assembly ^(†)	3,040.40	701	2.131	-	-	-	5,160.93	100	0.516	5,228.98	140	0.732	-	-	-	5,228.98	140	0.732
MS96 Window Cutting Assembly ^(†)	3,059.20	681	2.083	-	-	-	5,160.93	100	0.516	5,228.97	120	0.627	-	-	-	5,228.97	120	0.627
MS97 Window Cutting Assembly ^(†)	3,114.35	588	1.831	-	-	-	5,160.93	100	0.516	5,228.97	120	0.627	-	-	-	5,228.97	120	0.627
DWEA Initiator Cartridge ^(†)	798.00	400	0.319	1,003.00	230	0.231	-	-	-	-	-	-	-	-	-	-	-	-
MS91 Canopy Removal FCDC ^(†)	1,531.66	500	0.766	-	-	-	1,911.68	100	0.191	2,038.64	100	0.204	-	-	-	2,038.64	100	0.204
MS92 Canopy Removal FCDC ^(†)	1,324.16	950	1.258	-	-	-	1,911.68	100	0.191	2,102.84	100	0.210	-	-	-	2,102.84	100	0.210
JM96 Chinook Impulse Cartridge ^(†)	778.52	686	0.534	835.00	400	0.334	-	-	-	-	-	-	-	-	-	-	-	-
TY60 Chinook Fire Bottle Cartridge	600.00	225	0.135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP02/03 UEES Det Cord Assembly	988.61	163	0.161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT06 Initiator JAU-59A ^(†)	1,482.00	480	0.711	2,036.00	125	0.255	2,036.00	125	0.255	2,100.00	100	0.210	-	-	-	2,100.00	100	0.210
MT20 Ctg Aircraft Fire Extinguisher ^(†)	-	-	-	500.00	200	0.100	500.00	218	0.109	-	-	-	-	-	-	-	-	-
WB53 Ctg Aircraft Fire Extinguisher ^(†)	368.00	800	0.294	413.00	800	0.330	413.00	770	0.318	413.00	700	0.289	-	-	-	413.00	700	0.289
MD65 Release Cartridge ^(†)	18.55	1,000	0.019	-	-	-	23.18	700	0.016	-	-	-	-	-	-	-	-	-
SP02 TLX Line ^(†)	936.89	196	0.184	-	-	-	1,247.00	180	0.224	-	-	-	-	-	-	-	-	-
SP03 TLX Line ^(†)	936.89	196	0.184	-	-	-	1,247.00	180	0.224	-	-	-	-	-	-	-	-	-
MD66 Release Cartridge ^(†)	-	-	-	-	-	-	-	-	-	37.99	500	0.019	-	-	-	37.99	500	0.019
Subtotal: Recurring Cost	-	-	21.696	-	-	1.250	-	-	3.707	-	-	4.253	-	-	-	-	-	4.253
Non Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2420E61000 / CAD/PAD, All Types						Item Number / Title [DODIC]: EA0003 / CAD/PAD, All Other						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Prior Years (Multiple DODICs)	-	-	132.250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MJ20/MJ21 Decoupling Project	-	-	0.297	-	-	0.150	-	-	0.005	-	-	0.040	-	-	-	-	-	0.040
MD66 PIP for JM92	-	-	0.085	-	-	0.127	-	-	0.012	-	-	-	-	-	-	-	-	-
JN79-82 Startup Costs	-	-	1.142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UEES PIP Procurements	-	-	1.943	-	-	1.128	-	-	2.196	-	-	-	-	-	-	-	-	-
JM96 & MJ20 Fixtures	-	-	0.075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	135.792	-	-	1.405	-	-	2.213	-	-	0.040	-	-	-	-	-	0.040
Subtotal: Hardware Cost	-	-	157.488	-	-	2.655	-	-	5.920	-	-	4.293	-	-	-	-	-	4.293
Support - Congressional Adjustments Cost																		
Congressional Rescission	-	-	3.466	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Congressional Adjustments Cost	-	-	3.466	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Hardware Analysis Cost																		
Hardware Analysis	-	-	0.227	-	-	0.082	-	-	0.357	-	-	0.411	-	-	-	-	-	0.411
Subtotal: Support - Hardware Analysis Cost	-	-	0.227	-	-	0.082	-	-	0.357	-	-	0.411	-	-	-	-	-	0.411
Support - Production Engineering Cost																		
Production Engineering	-	-	3.924	-	-	1.860	-	-	1.366	-	-	1.861	-	-	-	-	-	1.861
Subtotal: Support - Production Engineering Cost	-	-	3.924	-	-	1.860	-	-	1.366	-	-	1.861	-	-	-	-	-	1.861
Gross/Weapon System Cost	-	-	165.104	-	-	4.597	-	-	7.643	-	-	6.564	-	-	-	-	-	6.564
Remarks:																		
Starting in FY 2023, program switched to three-year IDIQ contracts to alleviate unit cost jumps. There will be multiple price ranges, which will result in less price jumps from year to year. There are second source efforts being worked to help bring competition in pricing and alleviate single point failures.																		
All CAD/PADs requirements are determined by analyzing number of Army aircraft, on-hand inventory, actual expenditures, shelf life, install life, expiration dates, procurement lead times, and projected contract delivery dates. The number of CAD/PADs procured is to ensure adequate assets are available for fleet support and operational readiness.																		
Footnotes:																		
1) UEES PIP Procurements - Funding formally for Underwater Emergency Egress System procurements																		
2) FY 2023 Hardware Analysis are assessed on three different CAD/PAD items.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: 2420E61000 / CAD/PAD, All Types	Item Number / Title [DODIC]: EA0003 / CAD/PAD, All Other
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
3) FY 2024 Hardware Analysis are assessed on three different CAD/PAD items. 4) Production Engineering funding provided to Naval Surface Warfare Center - Indian Head Explosive Ordnance Disposal Technology Division. (t) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2420E61000 / CAD/PAD, All Types				Item Number / Title [DODIC]: EA0003 / CAD/PAD, All Other				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
MS81 Shielded Det Cord		2024	TBD / TBD	C / FFP	NAVSUP	Mar 2024	Mar 2025	120	1,228.51	Y		
MS82 Shielded Det Cord		2024	TBD / TBD	C / FFP	NAVSUP	Mar 2024	Mar 2025	120	1,228.51	Y		
MS83 Shielded Det Cord		2024	TBD / TBD	C / FFP	NAVSUP	Mar 2024	Mar 2025	100	1,228.51	Y		
MS85 Shielded Det Cord		2024	TBD / TBD	C / FFP	NAVSUP	Mar 2024	Mar 2025	120	1,228.51	Y		
MS86 Shielded Det Cord		2024	TBD / TBD	C / FFP	NAVSUP	Mar 2024	Mar 2025	100	1,228.51	Y		
MS87 Shielded Det Cord		2024	TBD / TBD	C / FFP	NAVSUP	Mar 2024	Mar 2025	100	1,228.51	Y		
MJ21 Impulse Cartridge		2023	TBD / TBD	C / FFP	NAVSUP	Jul 2023	Jul 2024	200	569.91	Y		
MS94 Window Cutting Assembly		2023	TBD / TBD	C / IDIQ	NAVSUP	Jul 2023	Jul 2024	100	5,160.93	Y		
MS94 Window Cutting Assembly		2024	TBD / TBD	C / IDIQ	NAVSUP	Mar 2024	Mar 2025	100	5,228.97	Y		
MS95 Window Cutting Assembly		2023	TBD / TBD	C / IDIQ	NAVSUP	Jul 2023	Jul 2024	100	5,160.93	Y		
MS95 Window Cutting Assembly		2024	TBD / TBD	C / IDIQ	NAVSUP	Mar 2024	Mar 2024	140	5,228.98	Y		
MS96 Window Cutting Assembly		2023	TBD / TBD	C / IDIQ	NAVSUP	Jul 2023	Jul 2024	100	5,160.93	Y		
MS96 Window Cutting Assembly		2024	TBD / TBD	C / IDIQ	NAVSUP	Mar 2024	Mar 2025	120	5,228.97	Y		
MS97 Window Cutting Assembly		2023	TBD / TBD	C / IDIQ	NAVSUP	Jul 2023	Jul 2024	100	5,160.93	Y		
MS97 Window Cutting Assembly		2024	TBD / TBD	C / IDIQ	NAVSUP	Mar 2024	Mar 2025	120	5,228.97	Y		
DWEA Initiator Cartridge		2022	Pacific Scientific / Chandler, AZ	C / FFP	NAVSUP	Dec 2022	Dec 2023	230	1,003.00	Y		
MS91 Canopy Removal FCDC		2023	TBD / TBD	C / IDIQ	NAVSUP	Mar 2023	Mar 2024	100	1,911.68	Y		
MS91 Canopy Removal FCDC		2024	TBD / TBD	C / IDIQ	NAVSUP	Mar 2024	Mar 2025	100	2,038.64	Y		
MS92 Canopy Removal FCDC		2023	TBD / TBD	C / IDIQ	NAVSUP	Mar 2023	Mar 2024	100	1,911.68	Y		
MS92 Canopy Removal FCDC		2024	TBD / TBD	C / IDIQ	NAVSUP	Mar 2024	Mar 2025	100	2,102.84	Y		
JM96 Chinook Impulse Cartridge		2022	AMETEK AMERON, LLC / Baldwin Park, CA	C / FFP	NAVSUP	Sep 2022	Sep 2023	400	835.00	Y		
MT06 Initiator JAU-59A		2022	Rockwell Collins Inc. / Cedar Rapids, IA	C / FFP	NAVSUP	Dec 2022	Dec 2023	125	2,036.00	Y		
MT06 Initiator JAU-59A		2023	Rockwell Collins Inc. / Cedar Rapids, IA	C / IDIQ	NAVSUP	Dec 2022	Dec 2023	125	2,036.00	Y		
MT06 Initiator JAU-59A		2024	Rockwell Collins Inc. / Cedar Rapids, IA	C / IDIQ	NAVSUP	Mar 2024	Mar 2025	100	2,100.00	Y		
MT20 Ctg Aircraft Fire Extinguisher		2022	AMETEK AMERON, LLC / Baldwin Park, CA	C / FFP	NAVSUP	Jun 2022	Jun 2023	200	500.00	Y		
MT20 Ctg Aircraft Fire Extinguisher		2023	AMETEK AMERON, LLC / Baldwin Park, CA	C / FFP	NAVSUP	Nov 2022	Nov 2023	218	500.00	Y		
WB53 Ctg Aircraft Fire Extinguisher		2022	AMETEK AMERON, LLC / Baldwin Park, CA	C / FFP	NAVSUP	Aug 2022	Aug 2023	800	413.00	Y		
WB53 Ctg Aircraft Fire Extinguisher		2023	AMETEK AMERON, LLC / Baldwin Park, CA	C / IDIQ	NAVSUP	Dec 2022	Dec 2023	770	413.00	Y		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2420E61000 / CAD/PAD, All Types				Item Number / Title [DODIC]: EA0003 / CAD/PAD, All Other				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
WB53 Ctg Aircraft Fire Extinguisher		2024	AMETEK AMERON, LLC / Baldwin Park, CA	C / IDIQ	NAVSUP	Mar 2024	Mar 2024	700	413.00	Y		
MD65 Release Cartridge		2023	TBD / TBD	C / FFP	NAVSUP	Mar 2023	Mar 2024	700	23.18	Y		
SP02 TLX Line		2023	TBD / TBD	C / FFP	NAVSUP	Mar 2023	Mar 2024	180	1,247.00	Y		
SP03 TLX Line		2023	TBD / TBD	C / FFP	NAVSUP	Mar 2023	Mar 2023	180	1,247.00	Y		
MD66 Release Cartridge		2024	TBD / TBD	C / FFP	NAVSUP	Mar 2024	Mar 2025	500	37.99	Y		

Remarks:
Contract award and First Delivery projections provided by Naval Surface Warfare Center (NSWC) at Indian Head which awards all procurement contracts for this program. This funding is required to support fleet requirements that take into account the aircraft inventory, maintenance cycle, shelf/install life, procurement lead-times, and expenditures. Due the variability of these factors, actual CAD/PAD end items procured may vary.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition							P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A					Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	631.551	35.943	26.199	24.238	-	24.238	22.807	16.453	4.075	4.077	-	765.343
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	631.551	35.943	26.199	24.238	-	24.238	22.807	16.453	4.075	4.077	-	765.343
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	631.551	35.943	26.199	24.238	-	24.238	22.807	16.453	4.075	4.077	-	765.343
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: SSN E45404 / Receiver, Radio Firing-Remote Actv MunSys(RF-RAMS) is a new start within the Demolition Munitions, All Types program in FY 2024 SSN E50703 / DEMO KIT, BANGALORE TORPEDO, M1A3 (2.5 foot) is a new start within the Demolition Munitions, All Types program in FY 2024 SSN E50800 / CHARGE, Demo Blk TNT 1/4 lb is a new start within the Demolition Munitions, All Types program in FY 2024 SSN E51000 / CHARGE, Demo Blk TNT 1 lb is a new start within the Demolition Munitions, All Types program in FY 2024 SSN E53200 / CHARGE, Demo Shaped 40 lb, M3 is a new start within the Demolition Munitions, All Types program in FY 2024 SSN E54200 / CORD DETONATING INERT is a new start within the Demolition Munitions, All Types program in FY 2024 SSN E81302 / CAP, Blasting Non-Elec, w/30Ft Shock Tube is a new start within the Demolition Munitions, All Types program in FY 2024 SSN E96200 / BOOSTER, DEMO CHARGE M152 INERT is a new start within the Demolition Munitions, All Types program in FY 2024 SSN E99901 / Cap, Blasting, Non-Electric, 200 Ft Minitube, M19 is a new start within the Demolition Munitions, All Types program in FY 2024 This budget line includes Demolition Munitions, All Types. (E45404) The M17A1 Receiver, Radio Frequency Remote Activation Munition System (RF-RAMS) is a single use item, which is capable of functioning non electric blasting caps or detonation cord. The M17A1 provides the un-tethered capability to wirelessly function/initiate demolition charges or munitions up to and beyond 5 KM line-of-sight/non line-of-sight, once it receives the correct programmed coded signal from the RF-RAMS transmitter. The Receiver is programmed in the field by an RF-RAMS Transmitter and subsequently responds only to that transmitter. This item is Code A, approved for service use. (E50601) Charge Demolition Block Comp C-4 1-1/4 LB M112 is the primary demolition explosive used by the U.S. Army. The M112 Demolition Block is used for general demolition and, in particular, for destruction of captured enemy ammunition. The block demolition charge consists of 1-1/4 pounds of composition C-4 plastic explosive packed in a mylar-film bag. Pressure sensitive adhesive tape is provided on one of the rectangular surfaces, allowing quick emplacement by the individual soldier on the object to be destroyed. The explosive may be cut and/or removed from its wrapper and hand molded into a desired shape suited to the target. Upon detonation, the shock wave destroys the target by cutting, breaching or cratering. This item is Code A, approved for service use. (E50703) Bangalore Torpedo 2.5 FT M1A3 is used to clear paths through barbed wire entanglements and minefields. Bangalore torpedoes are also used for clearing heavy undergrowth of bamboo and may also be used as a cratering charge, especially in connection with shaped charges against reinforced concrete targets. This item is Code A, approved for service use.												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E50800) 1/4 LB TNT (Tri Nitro Toluene) Block Demolition Charge is one of three TNT charges. TNT demolition charges have a high detonating velocity and are particularly well suited to cutting or breaching hard surface materials. When a charge is detonated, the explosive is converted into compressed gas. The gas exerts pressure in the form of a shock wave which demolishes the target by cutting, breaching, or cratering. The type of demolition achieved depends on the placement of the charge in relation to the target. Unlike the 1 pound and 1/2 pound versions, which are rectangular, the 1/4 pound block is issued in a cylindrical, waterproof, olive-drab cardboard container or an alternative plastic cylindrical container. The cardboard container design has metal ends with a threaded cap well in one end. The plastic designs also have one end with a threaded cap well in one end. This item is Code A, approved for service use.</p>		
<p>(E51000) CHARGE, Demo Blk TNT 1 lb - TNT demolition charges have a high detonating velocity and are particularly well suited to cutting or breaching hard surface materials. When a charge is detonated, the explosive is converted into compressed gas. The gas exerts pressure in the form of a shock wave which demolishes the target by cutting, breaching, or cratering. The type of demolition achieved depends on the placement of the charge in relation to the target. The 1 pound block is issued in a rectangular, waterproof, olive-drab plastic cylindrical container. The plastic designs have one end with a threaded cap well in one end. This item is Code A, approved for service use.</p>		
<p>(E51300) 40LB Cratering Demolition Block Charge is a demolition charge designed to destroy roads, bridge abutments, runways, buildings, fortifications and other concrete structures. It uses a low velocity explosive which destroys by a lifting and heaving motion rather than the cutting action of high velocity charges. This item is Code A, approved for service use.</p>		
<p>(E51400) M186 Demolition Charge is a 50 foot roll of flexible explosive. It is 3 inches wide and 1/4 inch thick. It can be easily cut and formed into various shapes and is primarily used as a cutting charge. This item is Code A, approved for service use.</p>		
<p>(E52000) The M4A1 Selectable Light Weight Attack Munition (SLAM) is a multipurpose munition designed to be readily portable and hand-emplaced against lightly armored vehicles, parked aircraft, wheeled or tracked support vehicles, and ammunition or fuel storage sites. The SLAM can be used either day or night during all weather conditions. Man-in-the-loop is required in all attack modes. The improved M4A1 SLAM has several producibility and safety enhancements; these include charges to the mode/time selector switch, housing base and cover assembly and passive sensor assembly. A battery bleed resistor was added for improved safety. This item is Code A, approved for service use.</p>		
<p>(E53200) Charge Demolition Shaped M3 40 pound is used to blast craters in paved and unpaved roads and to bore holes in metals, masonry or concrete. It contains a 15-inch stand-off, 29.5 pound Comp B main charge and a 0.11 pound Comp A3 booster. This item is Code A, approved for service use.</p>		
<p>(E54100) Detonating Cord is used to prime and detonate explosive charges. Unlike the time fuze, which burns slowly, detonating cord burns almost instantaneously. It is used to link a series of near simultaneous charges. The Type 1, Class E detonating cord consists of a core of high velocity explosive in a seamless textile tube. The tube is covered with a thin layer of asphalt and sheathed in an outer cover of plastic coated textile. The plastic outer cover is smooth and colored olive drab. This item is Code A, approved for service use.</p>		
<p>(E54200) CORD DETONATING INERT - The M458 Inert Detonating Cord is similar to the M456 Type 1E in construction and external appearance, consists of an asphalt-coated cotton tube sheathed in an outer cover of smooth plastic coated rayon. The Inert cord differs from the service cord in that the cord of the training item is inert loaded with poly-vinyl chloride (PVC) filler and the plastic outer is blue. This item is Code A, approved for service use.</p>		
<p>(E60200) Cutter CTG Actuated 2 Sec Delay M21 is a cartridge actuated device that is used in aerial delivery systems for cargo. It severs a reefing line which allows a parachute to fully deploy. The cutter is installed in a mounting bracket which is attached to the parachute. Major components consist of a case, firing pin assembly, lanyard, knife assembly, delay assembly, and cotter pin. This item is Code A, approved for service use.</p>		
<p>(E78201) Charge Demolition M980 Sheet Explosive, PBXW-202 is a 20 pound, 38 foot roll of flexible explosive. It is 10 inches wide and .083 inches thick. It can be easily cut and formed into various shapes and is primarily used as a cutting charge. This item is Code A, approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E81302) Cap Blasting Non-Elec, W/30 ft. Shock Tube is part of the family of Modernized Demolition Initiators (MDI). It consists of a blasting cap which is factory sealed to a length of shock tube. The tube is activated using an M81 igniter. A shock wave travels the length of the tube, with a delay measured in milliseconds, and ignites the blasting cap which in turn initiates the main charge. The MDI is not susceptible to electrostatic discharge or Radio Frequency (RF) jamming. The 30 foot length is generally used as a linking charge for a series of demolitions. This item is Code A, approved for service use.</p> <p>(E81307) Igniter, Time Fuse and Shock Tube, M81 is part of the family of Modernized Demolition Initiators (MDI). The M81 is a device, hand held by the individual Soldier, with a small primer charge that will activate the M700 Time Fuse as well as a shock tube. It is the primary device for all non-electrical demolition initiation. This item is Code A, approved for service use.</p> <p>(E96200) Booster, Demo Charge M152 is part of the family of Modernized Demolition Initiators (MDI). This item physically represents the actual M152, except it is inert. It is used for training and is reusable. The color of the detonating cord is bronze. The ID tags legibly display "M152 Inert". The blasting cap has four holes drilled on the circumference using a #46-48 drill size to establish an unobstructed view through the cap. These holes are 90 degrees apart. The blasting caps are also labeled "inert" on two sides, opposite each other. This item is Code A, approved for service use.</p> <p>(E99901) Cap, Blasting, Non-Electric, 200 Ft Minitube, M19 is part of the family of Modernized Demolition Initiators (MDI). It consists of a dual initiating component used to activate standard military explosives and demolition devices. The MDI is not susceptible to electrostatic discharge or Radio Frequency (RF) jamming. This item is Code A, approved for service use.</p> <p>(E99903) Blast Cap, Non-Elec: 500Ft Minitube, M21 is part of the family of Modernized Demolition Initiators (MDI). It consists of an initiating component used to activate standard military explosives and demolition devices. The MDI is not susceptible to electrostatic discharge or Radio Frequency (RF) jamming. This item is Code A, approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition	P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E45404 / Receiver, Radio Firing-Remote Actv MunSys(RF-RAMS) [MP47]	P-5a	A		- / 32.124	- / -	- / -	- / 4.342	- / -	- / 4.342
P-5	E50601 / CHARGE, Demo Blk Comp C-4 1-1/4 lb, M112 [M023]	P-5a	A		- / 238.950	- / 1.982	- / -	- / -	- / -	- / -
P-5	E50703 / DEMO KIT, BANGALORE TORPEDO, M1A3 (2.5 foot) [MP03]	P-5a	A		- / -	- / -	- / -	- / 0.495	- / -	- / 0.495
P-5	E50800 / CHARGE, Demo Blk TNT 1/4 lb [M030]		A		- / 6.341	- / -	- / -	- / 0.372	- / -	- / 0.372
P-5	E51000 / CHARGE, Demo Blk TNT 1 lb	P-5a	A		- / 6.671	- / -	- / -	- / 0.590	- / -	- / 0.590
P-5	E51300 / CHARGE, Demo Cratering 40 lb [M039]	P-5a	A		- / 48.932	- / 3.879	- / 8.415	- / 0.494	- / -	- / 0.494
P-5	E51400 / CHARGE, Demo, (50ft), Sheet Explosive, M186 [M060]	P-5a	A		- / 17.053	- / 3.103	- / 4.082	- / 0.077	- / -	- / 0.077
P-5	E52000 / MUNITION, Selectable Lightweight Attack (SLAM), M4 [MP12]	P-5a	A		- / 92.945	- / 9.718	- / -	- / -	- / -	- / -
P-5	E53200 / CHARGE, Demo Shaped 40 lb, M3	P-5a	A		- / 28.336	- / -	- / -	- / 3.676	- / -	- / 3.676
P-5	E54100 / CORD, Detonating Type 1 [M456]	P-5a	A		- / 38.540	- / 2.606	- / 4.150	- / 2.458	- / -	- / 2.458
P-5	E54200 / CORD DETONATING INERT	P-5a	A		- / 1.494	- / -	- / -	- / 0.178	- / -	- / 0.178
P-5	E60200 / CUTTER, Cartridge Actuated, M21, 2 Second Delay [M500]	P-5a	A		- / 50.058	- / 4.352	- / 4.762	- / 2.958	- / -	- / 2.958
P-5	E78201 / CHARGE, Demo (38FT) Sheet Explosive, PBXW-202 [M980]	P-5a	A		- / 6.828	- / 5.219	- / -	- / -	- / -	- / -
P-5	E81302 / CAP, Blasting Non-Elec, w/30Ft Shock Tube [ML47]	P-5a	A		- / 10.361	- / -	- / -	- / 2.425	- / -	- / 2.425
P-5	E81307 / IGNITER, Time Fuze and Shock Tube, M81 [MN08]	P-5a	A		- / 20.828	- / 2.362	- / 2.656	- / 0.108	- / -	- / 0.108
P-5	E96200 / BOOSTER, DEMO CHARGE M152 INERT [MN75]	P-5a	A		- / 0.168	- / -	- / -	- / 0.380	- / -	- / 0.380
P-5	E99901 / Cap, Blasting, Non-Electric, 200 Ft Minitube, M19	P-5a	A		- / 5.631	- / 0.526	- / -	- / 2.412	- / -	- / 2.412
P-5	E99903 / CAP, Blasting Non-Elec, w/500Ft Minitube, M21 [MN88]	P-5a	A		- / 26.291	- / 2.196	- / 2.134	- / 3.273	- / -	- / 3.273
P-40	Total Gross/Weapon System Cost				- / 631.551	- / 35.943	- / 26.199	- / 24.238	- / -	- / 24.238

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

The FY 2024 Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

The FY 2024 Total Base dollars in the amount of \$24.238 million supports the procurement of fifteen variants of Demolitions.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E45404) M17A1 Receiver, Radio Frequency Remote Activation Munition System (RF-RAMS) This is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$4.342 million supports the production of 612 systems. E45404 is a new start in FY 2024. TYPE CLASSIFICATION DATE: 2006</p> <p>(E50601) Charge Demo BLK Comp C-4 1-1/4 LB M112 This is a training standard item used in both training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goal. E50601 has no FY 2024 funding request. TYPE CLASSIFICATION DATE: 1964</p> <p>(E50703) DEMO KIT, BANGALORE TORPEDO, M1A3 (2.5 foot) This is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.495 million supports the production of 61 systems. E50703 is a new start in FY 2024. TYPE CLASSIFICATION DATE: 1958</p> <p>(E50800) CHARGE, Demo Blk TNT 1/4 lb This is a training standard item used in training and combat. FY 2024 request supports engineering for items entering into production. FY 2024 Base procurement dollars in the amount of \$0.372 million provides engineering support for items entering into production. E50800 is a new start in FY 2024. TYPE CLASSIFICATION DATE: 1958</p> <p>(E51000) CHARGE, Demo Blk TNT 1 lb This is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.590 million supports the production of 9,383 systems. E51000 is a new start in FY 2024. TYPE CLASSIFICATION DATE: 1958</p> <p>(E51300) 40LB Cratering Demolition Block Charge This is a training standard item used in training and combat. FY 2024 request supports engineering for items in production. FY 2024 Base procurement dollars in the amount of \$0.494 million provides engineering support for items in production. TYPE CLASSIFICATION DATE: 1958</p> <p>(E51400) M186 Demolition Charge This is a training standard item used in training and combat. FY 2024 request supports engineering for items in production. FY 2024 Base procurement dollars in the amount of \$0.077 provides engineering support for items in production. TYPE CLASSIFICATION DATE: 1968</p> <p>(E52000) Selectable Light Weight Attack Munition (SLAM) This is a training standard item used in both training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goal. E52000 has no FY 2024 funding request. TYPE CLASSIFICATION DATE: 2011</p> <p>(E53200) Charge Demolition Shaped M3 This is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
FY 2024 Base procurement dollars in the amount of \$3.676 million supports the production of 2,163 Demolition Charges. E53200 is a new start in FY 2024. TYPE CLASSIFICATION DATE: 1960		
(E54100) Detonating Cord, Type 1 This is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$2.458 million supports the production of 5,207,010 Detonating Cords. TYPE CLASSIFICATION DATE: 1958		
(E54200) CORD DETONATING INERT This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.178 million supports the production of 97,954 Detonating Inerts. E54200 is a new start in FY 2024. TYPE CLASSIFICATION DATE: 1958		
(E60200) Cutter CTG Actuated 2 Sec delay M21 This is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$2.958 million supports the production of 4,027 Cutters. TYPE CLASSIFICATION DATE: 1980		
(E78201) M980 Demolition Charge, 38 foot Sheet Explosive This is a training standard item used in both training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. E78201 has no FY 2024 funding request. TYPE CLASSIFICATION DATE: EOD Item Navy Configured		
(E81302) Cap Blasting Non-Electric, W/30 ft Shock Tube is part of the family of Modernized Demolition Initiators. This is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$2.425 million supports procurement of 77,711 initiators. E81302 is a new start in FY 2024. TYPE CLASSIFICATION DATE: April 1996		
(E81307) Igniter, Time Fuze and Shock Tube, M81 This is a training standard item used in training and combat. FY 2024 request supports engineering for items in production. FY 2024 Base procurement dollars in the amount of \$0.108 million provides engineering support for items in production. TYPE CLASSIFICATION DATE: April 1996		
(E96200) BOOSTER, DEMO CHARGE M152 INERT This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.380 million supports procurement of 12,478 boosters. E96200 is a new start in FY 2024. TYPE CLASSIFICATION DATE: April 1996		
(E99901) Cap, Blasting, Non-Electric, 200 Ft Minitube, M19 This is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$2.412 million supports procurement of 21,546 blasting caps. E99901 is a new start in FY 2024. TYPE CLASSIFICATION DATE: April 1996		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E99903) Blast Cap, Non-Elec: 500Ft Minitube, M21 is part of the family of Modern Demolition Initiators (MDI). This is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$3.273 million supports production of 44,728 Blasting Caps. TYPE CLASSIFICATION DATE: April 1996</p>		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E45404 / Receiver, Radio Firing-Remote Actv MunSys(RF-RAMS) [MP47]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				32.124		-		-		4.342		-		4.342				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				32.124		-		-		4.342		-		4.342				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				32.124		-		-		4.342		-		4.342				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	4,809.17	5,345	25.705	-	-	-	-	-	-	5,372.51	612	3.288	-	-	-	5,372.51	612	3.288
Subtotal: Recurring Cost	-	-	25.705	-	-	-	-	-	-	-	-	3.288	-	-	-	-	-	3.288
Subtotal: Hardware Cost	-	-	25.705	-	-	-	-	-	-	-	-	3.288	-	-	-	-	-	3.288
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	6.092	-	-	-	-	-	-	-	-	1.054	-	-	-	-	-	1.054
Subtotal: Support - Production Engineering Cost	-	-	6.092	-	-	-	-	-	-	-	-	1.054	-	-	-	-	-	1.054
Gross/Weapon System Cost	-	-	32.124	-	-	-	-	-	-	-	-	4.342	-	-	-	-	-	4.342
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types				Item Number / Title [DODIC]: E45404 / Receiver, Radio Firing-Remote Actv MunSys(RF-RAMS) [MP47]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2024	MNEMONICS, INC / MELBOURNE, FL	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Sep 2025	612	5,372.51	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types					Item Number / Title [DODIC]: E50601 / CHARGE, Demo Blk Comp C-4 1-1/4 lb, M112 [M023]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				238.950		1.982		-		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				238.950		1.982		-		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				238.950		1.982		-		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	133.97	106,335	14.245	11.97	21,186	0.254	-	-	-	-	-	-	-	-	-	-	-	-
COMP C-4 CLASS ₃ ^(†)	1,539.14	140,362	216.036	17.11	27,966	0.478	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	230.282	-	-	0.732	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	230.282	-	-	0.732	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	8.545	-	-	1.250	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	8.545	-	-	1.250	-	-	-	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	238.950	-	-	1.982	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E50601 / CHARGE, Demo Blk Comp C-4 1-1/4 lb, M112 [M023]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<div>(†) indicates the presence of a P-5a</div>		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types				Item Number / Title [DODIC]: E50601 / CHARGE, Demo Blk Comp C-4 1-1/4 lb, M112 [M023]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA	Option / FFP	ROCK ISLAND ARSENAL, IL	Sep 2022	Oct 2023	21,186	11.97	N		
COMP C-4 CLASS 3		2022	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSFORT, TN	C / FFP	ROCK ISLAND ARSENAL, IL	Sep 2022	Dec 2022	27,966	17.11	N		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E50703 / DEMO KIT, BANGALORE TORPEDO, M1A3 (2.5 foot) [MP03]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		-		-		0.495		-		0.495				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		-		-		0.495		-		0.495				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		-		-		0.495		-		0.495				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	1,690.63	61	0.103	-	-	-	1,690.63	61	0.103
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	0.103	-	-	-	-	-	0.103
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	0.103	-	-	-	-	-	0.103
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.392	-	-	-	-	-	0.392
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	0.392	-	-	-	-	-	0.392
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	0.495	-	-	-	-	-	0.495
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types				Item Number / Title [DODIC]: E50703 / DEMO KIT, BANGALORE TORPEDO, M1A3 (2.5 foot) [MP03]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2024	TO BE SELECTED / TBS01	C / TBD	PICATINNY ARSENAL, NJ	May 2024	Aug 2025	61	1,690.63	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E50800 / CHARGE, Demo Blk TNT 1/4 lb [M030]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				6.341		-		-		0.372		-		0.372				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				6.341		-		-		0.372		-		0.372				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				6.341		-		-		0.372		-		0.372				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND	53.48	102,185	5.465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	5.465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	5.465	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.075	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.795	-	-	-	-	-	-	-	-	0.372	-	-	-	-	-	0.372
Subtotal: Support - Production Engineering Cost	-	-	0.795	-	-	-	-	-	-	-	-	0.372	-	-	-	-	-	0.372
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	6.341	-	-	-	-	-	-	-	-	0.372	-	-	-	-	-	0.372

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E51000 / CHARGE, Demo Blk TNT 1 lb								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				6.671			-			-			0.590			-			0.590		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				6.671			-			-			0.590			-			0.590		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				6.671			-			-			0.590			-			0.590		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
LOAD, ASSEMBLE, PACK (LAP) ^(†)	13.99	250,112	3.499	-	-	-	-	-	-	13.99	9,383	0.131	-	-	-	13.99	9,383	0.131			
TNT TYPE I FLAKE (TRINITROTOLUENE) ^(†)	6.24	260,185	1.624	-	-	-	-	-	-	7.07	9,608	0.068	-	-	-	7.07	9,608	0.068			
Subtotal: Recurring Cost	-	-	5.123	-	-	-	-	-	-	-	-	0.199	-	-	-	-	-	0.199			
Subtotal: Hardware Cost	-	-	5.123	-	-	-	-	-	-	-	-	0.199	-	-	-	-	-	0.199			
Support - Production Engineering Cost																					
Production Engineering	-	-	1.548	-	-	-	-	-	-	-	-	0.391	-	-	-	-	-	0.391			
Subtotal: Support - Production Engineering Cost	-	-	1.548	-	-	-	-	-	-	-	-	0.391	-	-	-	-	-	0.391			
Gross/Weapon System Cost	-	-	6.671	-	-	-	-	-	-	-	-	0.590	-	-	-	-	-	0.590			
^(†) indicates the presence of a P-5a																					

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types				Item Number / Title [DODIC]: E51000 / CHARGE, Demo Blk TNT 1 lb				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2024	TO BE SELECTED / TBS01	C / TBD	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	9,383	13.99	Y		
TNT TYPE I FLAKE (TRINITROTOLUENE)		2024	TO BE SELECTED / TBS01	C / TBD	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	9,608	7.07	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E51300 / CHARGE, Demo Cratering 40 lb [M039]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				48.932		3.879		8.415		0.494		-		0.494				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				48.932		3.879		8.415		0.494		-		0.494				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				48.932		3.879		8.415		0.494		-		0.494				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	2,957.84	5,473	16.188	575.84	2,443	1.407	587.35	5,247	3.082	-	-	-	-	-	-	-	-	-
COMP B TYPE I GRADE A ^(†)	102.25	199,326	20.381	14.07	89,240	1.256	14.35	191,096	2.742	-	-	-	-	-	-	-	-	-
ALUMINUM POWDER FLAKED ^(†)	25.02	57,850	1.448	3.58	25,900	0.093	3.84	55,461	0.213	-	-	-	-	-	-	-	-	-
COMP D-2 ^(†)	674.81	13,825	9.329	92.82	6,189	0.574	94.54	13,254	1.253	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	47.346	-	-	3.330	-	-	7.290	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	47.346	-	-	3.330	-	-	7.290	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.182	-	-	-	-	-	0.146	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.182	-	-	-	-	-	0.146	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	1.401	-	-	0.546	-	-	0.972	-	-	0.487	-	-	-	-	-	0.487
Subtotal: Support - Production Engineering Cost	-	-	1.401	-	-	0.546	-	-	0.972	-	-	0.487	-	-	-	-	-	0.487
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.003	-	-	0.003	-	-	0.006	-	-	0.007	-	-	-	-	-	0.007

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types							Item Number / Title [DODIC]: E51300 / CHARGE, Demo Cratering 40 lb [M039]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
	Subtotal: Support - Quality Assurance Cost	-	-	0.003	-	-	0.003	-	-	0.006	-	-	0.007	-	-	-	-	-
Gross/Weapon System Cost	-	-	48.932	-	-	3.879	-	-	8.415	-	-	0.494	-	-	-	-	-	0.494

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types					Item Number / Title [DODIC]: E51300 / CHARGE, Demo Cratering 40 lb [M039]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Aug 2023	Feb 2025	2,443	575.84	Y		
LOAD, ASSEMBLE, PACK (LAP)		2023	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Aug 2023	Feb 2025	5,247	587.35	Y		
COMP B TYPE I GRADE A		2022	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	May 2023	May 2024	89,240	14.07	Y		
COMP B TYPE I GRADE A		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	191,096	14.35	Y		
ALUMINUM POWDER FLAKED		2022	TO BE SELECTED / TBS01	C / TBD	ROCK ISLAND ARSENAL, IL	Aug 2023	Feb 2025	25,900	3.58	Y		
ALUMINUM POWDER FLAKED		2023	TO BE SELECTED / TBS01	C / TBD	ROCK ISLAND ARSENAL, IL	Aug 2023	Feb 2025	55,461	3.84	Y		
COMP D-2		2022	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	May 2023	Jun 2024	6,189	92.82	Y		
COMP D-2		2023	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSPORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	Mar 2023	Jun 2023	13,254	94.54	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E51400 / CHARGE, Demo, (50ft), Sheet Explosive, M186 [M060]						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				17.053		3.103		4.082		0.077		-		0.077				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				17.053		3.103		4.082		0.077		-		0.077				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				17.053		3.103		4.082		0.077		-		0.077				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	68.77	216,397	14.880	46.54	54,168	2.521	47.47	72,858	3.459	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	14.881	-	-	2.521	-	-	3.459	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	14.881	-	-	2.521	-	-	3.459	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.373	-	-	0.075	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.373	-	-	0.075	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	1.782	-	-	0.507	-	-	0.620	-	-	0.077	-	-	-	-	-	0.077
Subtotal: Support - Production Engineering Cost	-	-	1.782	-	-	0.507	-	-	0.620	-	-	0.077	-	-	-	-	-	0.077
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.018	-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.018	-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	17.053	-	-	3.103	-	-	4.082	-	-	0.077	-	-	-	-	-	0.077
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types					Item Number / Title [DODIC]: E51400 / CHARGE, Demo, (50ft), Sheet Explosive, M186 [M060]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Feb 2023	Feb 2024	54,168	46.54	Y		
Complete Round		2023	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	72,858	47.47	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types					Item Number / Title [DODIC]: E52000 / MUNITION, Selectable Lightweight Attack (SLAM), M4 [MP12]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				92.945		9.718		-		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				92.945		9.718		-		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				92.945		9.718		-		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	6,909.34	11,569	79.934	3,959.72	2,066	8.181	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	79.934	-	-	8.181	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	79.934	-	-	8.181	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.893	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
First Article Test	-	-	2.506	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	3.399	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Production Qualification Test	-	-	0.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	0.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	9.312	-	-	1.537	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	9.312	-	-	1.537	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	92.945	-	-	9.718	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E52000 / MUNITION, Selectable Lightweight Attack (SLAM), M4 [MP12]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<div>(†) indicates the presence of a P-5a</div>		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types				Item Number / Title [DODIC]: E52000 / MUNITION, Selectable Lightweight Attack (SLAM), M4 [MP12]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	NORTHROP GRUMMAN INNOVATION / PLYMOUTH, MN	C / TBD	PICATINNY ARSENAL, NJ	Dec 2022	Jun 2024	2,066	3,959.72	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E53200 / CHARGE, Demo Shaped 40 lb, M3						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				28.336		-		-		3.676		-		3.676				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				28.336		-		-		3.676		-		3.676				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				28.336		-		-		3.676		-		3.676				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	28.336	-	-	-	-	-	-	1,132.34	2,163	2.449	-	-	-	1,132.34	2,163	2.449
COMP B TYPE I GRADE A ^(†)	-	-	-	-	-	-	-	-	-	13.32	69,216	0.922	-	-	-	13.32	69,216	0.922
COMP A-3 ^(†)	-	-	-	-	-	-	-	-	-	3.22	244	0.001	-	-	-	3.22	244	0.001
Subtotal: Recurring Cost	-	-	28.336	-	-	-	-	-	-	-	-	3.372	-	-	-	-	-	3.372
Subtotal: Hardware Cost	-	-	28.336	-	-	-	-	-	-	-	-	3.372	-	-	-	-	-	3.372
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.303	-	-	-	-	-	0.303
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	0.303	-	-	-	-	-	0.303
Gross/Weapon System Cost	-	-	28.336	-	-	-	-	-	-	-	-	3.676	-	-	-	-	-	3.676
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types					Item Number / Title [DODIC]: E53200 / CHARGE, Demo Shaped 40 lb, M3			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2024	TO BE SELECTED / TBS01	C / TBD	ROCK ISLAND ARSENAL, IL	May 2024	Nov 2025	2,163	1,132.34	Y		
COMP B TYPE I GRADE A		2024	BAE SYSTEMS ORDNANCE SYSTEMS / KINGSFORT, TN	Option / IDIQ	ROCK ISLAND ARSENAL, IL	May 2024	Nov 2025	69,216	13.32	Y		
COMP A-3		2024	TO BE SELECTED / TBS01	Option / TBD	ROCK ISLAND ARSENAL, IL	Dec 2023	Apr 2024	244	3.22	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E54100 / CORD, Detonating Type 1 [M456]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				38.540		2.606		4.150		2.458		-		2.458				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				38.540		2.606		4.150		2.458		-		2.458				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				38.540		2.606		4.150		2.458		-		2.458				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	0.33	109,253K	36.381	0.39	5,611,407	2.188	0.43	8,170,435	3.513	0.40	5,207,010	2.083	-	-	-	0.40	5,207,010	2.083
Subtotal: Recurring Cost	-	-	36.381	-	-	2.188	-	-	3.513	-	-	2.083	-	-	-	-	-	2.083
Subtotal: Hardware Cost	-	-	36.381	-	-	2.188	-	-	3.513	-	-	2.083	-	-	-	-	-	2.083
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	0.024	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.024	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	2.145	-	-	0.391	-	-	0.635	-	-	0.373	-	-	-	-	-	0.373
Subtotal: Support - Production Engineering Cost	-	-	2.145	-	-	0.391	-	-	0.635	-	-	0.373	-	-	-	-	-	0.373
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.013	-	-	0.003	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
Subtotal: Support - Quality Assurance Cost	-	-	0.013	-	-	0.003	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
Gross/Weapon System Cost	-	-	38.540	-	-	2.606	-	-	4.150	-	-	2.458	-	-	-	-	-	2.458
Remarks: E54100 / CORD, Detonating Type 1 - Production Engineering increased due to changes in planned procurement and reflects the pro-rated share for the Demo Blin support.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types	Item Number / Title [DODIC]: E54100 / CORD, Detonating Type 1 [M456]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types					Item Number / Title [DODIC]: E54100 / CORD, Detonating Type 1 [M456]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	ENSIGN-BICKFORD AEROSPACE & / SIMSBURY, CT	C / FFP	ROCK ISLAND ARSENAL, IL	Sep 2022	Sep 2023	5,611,407	0.39	Y		
Complete Round		2023	ENSIGN-BICKFORD AEROSPACE & / SIMSBURY, CT	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	8,170,435	0.43	Y		
Complete Round		2024	ENSIGN-BICKFORD AEROSPACE & / SIMSBURY, CT	C / FFP	ROCK ISLAND ARSENAL, IL	May 2024	May 2025	5,207,010	0.40	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E54200 / CORD DETONATING INERT						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				1.494		-		-		0.178		-		0.178				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				1.494		-		-		0.178		-		0.178				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				1.494		-		-		0.178		-		0.178				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	1.54	267,899	0.413	-	-	-	-	-	-	1.54	97,954	0.151	-	-	-	1.54	97,954	0.151
Subtotal: Recurring Cost	-	-	0.413	-	-	-	-	-	-	-	-	0.151	-	-	-	-	-	0.151
Subtotal: Hardware Cost	-	-	0.413	-	-	-	-	-	-	-	-	0.151	-	-	-	-	-	0.151
Support - Production Engineering Cost																		
Production Engineering	-	-	1.081	-	-	-	-	-	-	-	-	0.027	-	-	-	-	-	0.027
Subtotal: Support - Production Engineering Cost	-	-	1.081	-	-	-	-	-	-	-	-	0.027	-	-	-	-	-	0.027
Gross/Weapon System Cost	-	-	1.494	-	-	-	-	-	-	-	-	0.178	-	-	-	-	-	0.178
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types				Item Number / Title [DODIC]: E54200 / CORD DETONATING INERT				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2024	ENSIGN-BICKFORD AEROSPACE & / SIMSBURY, CT	C / FFP	PICATINNY ARSENAL, NJ	May 2024	May 2025	97,954	1.54	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E60200 / CUTTER, Cartridge Actuated, M21, 2 Second Delay [M500]						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				50.058		4.352		4.762		2.958		-		2.958				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				50.058		4.352		4.762		2.958		-		2.958				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				50.058		4.352		4.762		2.958		-		2.958				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round(†)	2,788.74	17,800	49.640	628.68	6,507	4.091	710.55	6,184	4.394	673.80	4,027	2.713	-	-	-	673.80	4,027	2.713
Subtotal: Recurring Cost	-	-	49.640	-	-	4.091	-	-	4.394	-	-	2.713	-	-	-	-	-	2.713
Subtotal: Hardware Cost	-	-	49.640	-	-	4.091	-	-	4.394	-	-	2.713	-	-	-	-	-	2.713
Support - Production Engineering Cost																		
Production Engineering	-	-	0.418	-	-	0.261	-	-	0.368	-	-	0.245	-	-	-	-	-	0.245
Subtotal: Support - Production Engineering Cost	-	-	0.418	-	-	0.261	-	-	0.368	-	-	0.245	-	-	-	-	-	0.245
Gross/Weapon System Cost	-	-	50.058	-	-	4.352	-	-	4.762	-	-	2.958	-	-	-	-	-	2.958
Remarks:																		
Unit cost varies annually based on projected pricing provided by Indian Head Naval Service Warfare Center.																		
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types					Item Number / Title [DODIC]: E60200 / CUTTER, Cartridge Actuated, M21, 2 Second Delay [M500]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	NAVAL SURF WARFARE CNTR / LEONARDTOWN, MD	MIPR	ROCK ISLAND ARSENAL, IL	Mar 2022	Jun 2023	6,507	628.68	Y		
Complete Round		2023	NAVAL SURF WARFARE CNTR / LEONARDTOWN, MD	MIPR	ROCK ISLAND ARSENAL, IL	Apr 2023	Apr 2025	6,184	710.55	Y		
Complete Round		2024	NAVAL SURF WARFARE CNTR / LEONARDTOWN, MD	MIPR	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2026	4,027	673.80	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types							Item Number / Title [DODIC]: E78201 / CHARGE, Demo (38FT) Sheet Explosive, PBXW-202 [M980]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (Units in Each)				-		-		-		-		-		-						
Gross/Weapon System Cost (\$ in Millions)				6.828		5.219		-		-		-		-						
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-						
Net Procurement (P-1) (\$ in Millions)				6.828		5.219		-		-		-		-						
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-						
Total Obligation Authority (\$ in Millions)				6.828		5.219		-		-		-		-						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
COMPLETE ROUND ^(†)	377.14	17,886	6.746	52.69	92,989	4.900	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Recurring Cost	-	-	6.746	-	-	4.900	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Hardware Cost	-	-	6.746	-	-	4.900	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Production Engineering Cost																				
Production Engineering	-	-	0.081	-	-	0.313	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Production Engineering Cost	-	-	0.081	-	-	0.313	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Quality Assurance Cost																				
Quality Assurance	-	-	0.001	-	-	0.006	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Quality Assurance Cost	-	-	0.001	-	-	0.006	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Cost	-	-	6.828	-	-	5.219	-	-	-	-	-	-	-	-	-	-	-	-		
(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types				Item Number / Title [DODIC]: E78201 / CHARGE, Demo (38FT) Sheet Explosive, PBXW-202 [M980]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	TO BE SELECTED / TBS01	C / TBD	ROCK ISLAND ARSENAL, IL	Feb 2023	Jan 2025	92,989	52.69	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E81302 / CAP, Blasting Non-Elec, w/30Ft Shock Tube [ML47]						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				10.361		-		-		2.425		-		2.425				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				10.361		-		-		2.425		-		2.425				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				10.361		-		-		2.425		-		2.425				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round ^(†)	23.84	407,742	9.722	-	-	-	-	-	-	24.84	77,711	1.930	-	-	-	24.84	77,711	1.930
Subtotal: Recurring Cost	-	-	9.722	-	-	-	-	-	-	-	-	1.930	-	-	-	-	-	1.930
Subtotal: Hardware Cost	-	-	9.722	-	-	-	-	-	-	-	-	1.930	-	-	-	-	-	1.930
Support - Production Engineering Cost																		
Production Engineering	-	-	0.639	-	-	-	-	-	-	-	-	0.494	-	-	-	-	-	0.494
Subtotal: Support - Production Engineering Cost	-	-	0.639	-	-	-	-	-	-	-	-	0.494	-	-	-	-	-	0.494
Gross/Weapon System Cost	-	-	10.361	-	-	-	-	-	-	-	-	2.425	-	-	-	-	-	2.425
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types				Item Number / Title [DODIC]: E81302 / CAP, Blasting Non-Elec, w/30Ft Shock Tube [ML47]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2024	ENSIGN-BICKFORD AEROSPACE & / SIMSBURY, CT	C / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	77,711	24.84	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E81307 / IGNITER, Time Fuze and Shock Tube, M81 [MN08]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (Units in Each)				-		-		-		-		-		-						
Gross/Weapon System Cost (\$ in Millions)				20.828		2.362		2.656		0.108		-		0.108						
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-						
Net Procurement (P-1) (\$ in Millions)				20.828		2.362		2.656		0.108		-		0.108						
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-						
Total Obligation Authority (\$ in Millions)				20.828		2.362		2.656		0.108		-		0.108						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (\$ in Millions)				-		-		-		-		-		-						
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-						
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
Complete Round ^(†)	55.88	349,612	19.538	5.80	309,600	1.796	6.67	280,568	1.871	-	-	-	-	-	-	-	-	-		
Subtotal: Recurring Cost	-	-	19.538	-	-	1.796	-	-	1.871	-	-	-	-	-	-	-	-	-		
Subtotal: Hardware Cost	-	-	19.538	-	-	1.796	-	-	1.871	-	-	-	-	-	-	-	-	-		
Support - Acceptance Testing Cost																				
First Article Test	-	-	-	-	-	0.018	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.018	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Initial Spares and Repair Parts Cost																				
Initial Spares and Repair Parts	-	-	-	-	-	0.021	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Initial Spares and Repair Parts Cost	-	-	-	-	-	0.021	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Product Improvement Cost																				
Production Qualification Test	-	-	-	-	-	0.013	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	0.013	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Production Engineering Cost																				
Production Engineering	-	-	1.290	-	-	0.514	-	-	0.785	-	-	0.108	-	-	-	-	-	0.108		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E81307 / IGNITER, Time Fuze and Shock Tube, M81 [MN08]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Production Engineering Cost	-	-	1.290	-	-	0.514	-	-	0.785	-	-	0.108	-	-	-	-	-	0.108
Gross/Weapon System Cost	-	-	20.828	-	-	2.362	-	-	2.656	-	-	0.108	-	-	-	-	-	0.108

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types				Item Number / Title [DODIC]: E81307 / IGNITER, Time Fuze and Shock Tube, M81 [MN08]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	UDC USA, INC. / TAMPA, FL	C / FFP	ROCK ISLAND ARSENAL, IL	Aug 2022	Nov 2023	309,600	5.80	Y		
Complete Round		2023	UDC USA, INC. / TAMPA, FL	C / FFP	PICATINNY ARSENAL, NJ	Mar 2023	Jun 2024	280,568	6.67	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E96200 / BOOSTER, DEMO CHARGE M152 INERT [MN75]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-						
Gross/Weapon System Cost (<i>\$ in Millions</i>)				0.168		-		-		0.380		-		0.380						
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Net Procurement (P-1) (<i>\$ in Millions</i>)				0.168		-		-		0.380		-		0.380						
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Total Obligation Authority (<i>\$ in Millions</i>)				0.168		-		-		0.380		-		0.380						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-						
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
Complete Round ^(†)	7.59	14,180	0.108	-	-	-	-	-	-	24.25	12,478	0.303	-	-	-	24.25	12,478	0.303		
Subtotal: Recurring Cost	-	-	0.108	-	-	-	-	-	-	-	-	0.303	-	-	-	-	-	0.303		
Subtotal: Hardware Cost	-	-	0.108	-	-	-	-	-	-	-	-	0.303	-	-	-	-	-	0.303		
Support - Acceptance Testing Cost																				
First Article Test	-	-	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Support - Acceptance Testing Cost	-	-	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Support - Production Engineering Cost																				
Production Engineering	-	-	0.025	-	-	-	-	-	-	-	-	0.077	-	-	-	-	-	0.077		
Subtotal: Support - Production Engineering Cost	-	-	0.025	-	-	-	-	-	-	-	-	0.077	-	-	-	-	-	0.077		
Gross/Weapon System Cost	-	-	0.168	-	-	-	-	-	-	-	-	0.380	-	-	-	-	-	0.380		
(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types				Item Number / Title [DODIC]: E96200 / BOOSTER, DEMO CHARGE M152 INERT [MN75]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2024	ENSIGN-BICKFORD AEROSPACE & / SIMSBURY, CT	C / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	12,478	24.25	N		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types						Item Number / Title [DODIC]: E99901 / Cap, Blasting, Non-Electric, 200 Ft Minitube, M19							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				5.631		0.526		-		2.412		-		2.412					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				5.631		0.526		-		2.412		-		2.412					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				5.631		0.526		-		2.412		-		2.412					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-			
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-		-			
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Hardware Cost																			
Recurring Cost																			
COMPLETE ROUND ^(†)	89.14	53,821	4.798	94.01	5,595	0.526	-	-	-	89.14	21,546	1.921	-	-	-	89.14	21,546	1.921	
Subtotal: Recurring Cost	-	-	4.798	-	-	0.526	-	-	-	-	-	1.921	-	-	-	-	-	1.921	
Subtotal: Hardware Cost	-	-	4.798	-	-	0.526	-	-	-	-	-	1.921	-	-	-	-	-	1.921	
Support - Production Engineering Cost																			
Production Engineering	-	-	0.833	-	-	0.000	-	-	-	-	-	0.491	-	-	-	-	-	0.491	
Subtotal: Support - Production Engineering Cost	-	-	0.833	-	-	-	-	-	-	-	-	0.491	-	-	-	-	-	0.491	
Gross/Weapon System Cost	-	-	5.631	-	-	0.526	-	-	-	-	-	2.412	-	-	-	-	-	2.412	
(†) indicates the presence of a P-5a																			

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types					Item Number / Title [DODIC]: E99901 / Cap, Blasting, Non-Electric, 200 Ft Minitube, M19			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	ENSIGN-BICKFORD AEROSPACE & / SIMSBURY, CT	SS / FFP	PICATINNY ARSENAL, NJ	Jul 2022	Jul 2023	5,595	94.01	Y		
COMPLETE ROUND		2024	ENSIGN-BICKFORD AEROSPACE & / SIMSBURY, CT	SS / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	21,546	89.14	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types							Item Number / Title [DODIC]: E99903 / CAP, Blasting Non-Elec, w/500Ft Minitube, M21 [MN88]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (<i>Units in Each</i>)				-			-			-			-			-			-		
Gross/Weapon System Cost (<i>\$ in Millions</i>)				26.291			2.196			2.134			3.273			-			3.273		
Less PY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Net Procurement (P-1) (<i>\$ in Millions</i>)				26.291			2.196			2.134			3.273			-			3.273		
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Total Obligation Authority (<i>\$ in Millions</i>)				26.291			2.196			2.134			3.273			-			3.273		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
Complete Round ^(†)	151.75	148,276	22.501	55.39	30,000	1.662	57.97	31,118	1.804	58.27	44,728	2.606	-	-	-	58.27	44,728	2.606			
Subtotal: Recurring Cost	-	-	22.501	-	-	1.662	-	-	1.804	-	-	2.606	-	-	-	-	-	2.606			
Subtotal: Hardware Cost	-	-	22.501	-	-	1.662	-	-	1.804	-	-	2.606	-	-	-	-	-	2.606			
Support - Acceptance Testing Cost																					
First Article Test	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Acceptance Testing Cost	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Support - Production Engineering Cost																					
Production Engineering	-	-	3.691	-	-	0.534	-	-	0.330	-	-	0.667	-	-	-	-	-	0.667			
Subtotal: Support - Production Engineering Cost	-	-	3.691	-	-	0.534	-	-	0.330	-	-	0.667	-	-	-	-	-	0.667			
Gross/Weapon System Cost	-	-	26.291	-	-	2.196	-	-	2.134	-	-	3.273	-	-	-	-	-	3.273			
(†) indicates the presence of a P-5a																					

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 2790E55400 / Demolition Munitions, All Types				Item Number / Title [DODIC]: E99903 / CAP, Blasting Non-Elec, w/500Ft Minitube, M21 [MN88]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round		2022	ENSIGN-BICKFORD AEROSPACE & / SIMSBURY, CT	C / FFP	PICATINNY ARSENAL, NJ	Jul 2022	Jul 2023	30,000	55.39	Y		
Complete Round		2023	ENSIGN-BICKFORD AEROSPACE & / SIMSBURY, CT	C / FFP	PICATINNY ARSENAL, NJ	Mar 2023	Jun 2024	31,118	57.97	Y		
Complete Round		2024	ENSIGN-BICKFORD AEROSPACE & / SIMSBURY, CT	C / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	44,728	58.27	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition							P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,221.331	35.055	36.251	48.374	-	48.374	32.558	64.656	67.450	66.728	-	1,572.403
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,221.331	35.055	36.251	48.374	-	48.374	32.558	64.656	67.450	66.728	-	1,572.403
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,221.331	35.055	36.251	48.374	-	48.374	32.558	64.656	67.450	66.728	-	1,572.403
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:
 SSN E31911 / GRENADE, HAND:SMOKE, SCREENING, M330 is a new start within the Grenades, All Types program in FY 2024
 SSN E34003 / GRENADE, Hand, Smoke, Red, M18 is a new start within the Grenades, All Types program in FY 2024
 SSN E35801 / BODY, PRACTICE HAND GRENADE, OFFENSIVE, M112 is a new start within the Grenades, All Types program in FY 2024
 SSN E69300 / GRENADE, Hand, Smoke, White, M83 is a new start within the Grenades, All Types program in FY 2024

This budget line includes Grenades, All Types.

(E00500) GRENADE 66MM VEH LNCHD WHITE SMK SCREENING TNG M82
 M82 Simulant Smoke Grenade is a 66mm grenade fielded to train in the handling, usage and deployment of the M76 infra-red, M81 graphite and brass flake as well as L8 Red Phosphorus grenades. The M82 contains the same internal and external components of the tactical M76 grenade except for a new fill material (titanium dioxide in place of ,the brass flake powder) along with a reduction in the amount of black powder in the propellant. The grenade is electrically initiated and propellant-launched to disseminate a visual screen cloud at a distance of about 30 meters away from combat equipped vehicle. This item is code A, approved for service use

(E31900) FUZE GRENADE HAND PRAC M228
 Fuze Grenade Hand Practice M228 is a pyrotechnic delay-igniting fuze (delay time of 4 to 5.5 seconds) for use with the M69 practice grenade body. The assembled grenade is identical in size, shape and weight to the M67 fragmentation hand grenade, and is used to learn and practice grenade throwing skills. The fuze contains a primer, a pyrotechnic delay column, and a black powder output charge (to generate an audible report). A striker, striker spring, safety lever, safety pin with pull ring, safety clip, and igniter assembly are assembled to the body. This item is Code A, approved for service use.

(E31911) GRENADE, HAND SMOKE SCREENING, M330
 The M330 is an improved obscurant grenade that provides the warfighter with screening performance equivalent to the legacy AN-M8 smoke grenade. M330 will replace the toxic carcinogen fill used in the AN-M8 smoke grenade with a more environmentally friendly formulation. The legacy AN-M8 has been restricted to use in contingency operations due only to its toxic effects. The M83 training smoke grenade currently used in lieu of the AN-M8 in both training and tactical operations does not give the screening performance comparable to the legacy AN-M8. Soldiers must also use three M83 grenades to produce obscuration effects comparable to a single AN-M8 grenade. The M330 will not only reduce the Soldier's combat load but will also provide sufficient tactical obscuration compared to the M83 thereby increasing Soldier mobility and survivability during operations under enemy fire. This item is Code A, approved for service use.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E32000) GRENADE HAND FRAG DELAY M67 Grenade Hand Fragmentation Delay M67 consists of a 2.5-inch diameter steel sphere that is designed to burst into numerous fragments when detonated. The grenade body is filled with approximately 5.4 ounces of high explosive, Composition B. Each grenade is fitted with an M213 fuze that initiates the explosive charge 4 to 5.5 seconds after release of the safety lever. The M67 Hand Grenade provides the Warfighter with the capability to conduct pre-mobilization training, and close combat operations. The M67 is an enabler for Soldier Lethality as it provides Soldiers with a highly effective capability that is easy to throw and can produce casualties to enemy combatants via a 15 meter fragmentation radius. This capability allows for increased lethality of dismounted Soldiers making the unit more efficient and lethal. This item is Code A, approved for service use.</p> <p>(E32200) GRENADE HAND INCENDIARY M14 Grenade Hand Incendiary M14 provides the Warfighter with the capability to destroy weapon caches, artillery pieces, and vehicles by means of a chemical reaction that produces intense heat, called a thermite reaction. In this reaction, powdered aluminum metal and iron oxide react to produce a stream of molten iron and aluminum oxide. This reaction produces a tremendous amount of heat, burning at 2,200 degrees Celsius (3,992 degrees Fahrenheit). Other advantages include its ability to function without an external oxygen source, allowing it to burn underwater. This item is Code A, approved for service use.</p> <p>(E33010) GRENADE HAND OFFENSIVE M111 The M111 Offensive Hand Grenade (OHG) consists of a plastic octagonal-shape body designed to provide lethal blast overpressures effective in indoor and close combat environments where fragments are not desired to reduce collateral damage. Each grenade is filled with PAX-3 pressed explosive and fitted with a M213 pyrotechnical delay fuze that initiates the explosive charge. The M111 OHG is an enabler for Soldier lethality as it produces blast overpressures against enemy troops in indoor areas, bunkers, trench lines, and tunnels. This capability allows for increased lethality of dismounted Soldiers making the unit more efficient and lethal. The M111 OHG is a more environmentally friendly replacement for the MK3A2 OHG which contains asbestos. This item will be Code A, approved for service use upon achieving Full Materiel Release, which is anticipated for 4Q FY 2024.</p> <p>(E34001) GRENADE HAND SMOKE GREEN M18 The M18 is an enabler to Soldier Lethality as it provides the Warfighter with a multi-functional capability that provides both effective marking and screening allowing the Unit to be more efficient and effective in combat operations. Grenade Hand Smoke Green M18 is used by the Warfighter for ground-to-air or ground-to-ground signaling while conducting training and combat operations. Each grenade will emit smoke for 50 to 90 seconds. The grenade body is made of thin sheet metal, filled with starter patches and a green smoke composition. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.</p> <p>(E34002) GRENADE HAND SMOKE YELLOW M18 The M18 is an enabler to soldier lethality as it provides the Warfighter with a multi-functional capability that provides both effective marking and screening allowing the Unit to be more efficient and effective in combat operations. Grenade Hand Smoke Yellow M18 is used by the Warfighter for ground-to-air or ground-to-ground signaling while conducting training and combat operations. Each grenade will emit smoke for 50 to 90 seconds. The grenade body is made of thin sheet metal, filled with starter patches and a yellow smoke composition. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.</p> <p>(E34003) GRENADE HAND SMOKE RED M18 The M18 is an enabler to Soldier Lethality as it provides the Warfighter with a multi-functional capability that provides both effective marking and screening allowing the Unit to be more efficient and effective in combat operations. Grenade Hand Smoke Red M18 is used by the Warfighter for ground-to-air or ground-to-ground signaling while conducting training and combat operations. Each grenade will emit smoke for 50 to 90 seconds. The grenade body is made of thin sheet metal, filled with starter patches and a red smoke composition. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.</p> <p>(E34004) GRENADE HAND SMOKE VIOLET M18</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types	
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A		Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			
<p>The M18 is an enabler to Soldier Lethality as it provides the Warfighter with a multi-functional capability that provides both effective marking and screening allowing the Unit to be more efficient and effective in combat operations. Grenade Hand Smoke Violet M18 is used by the Warfighter for ground-to-air or ground-to-ground signaling while conducting training and combat operations. Each grenade will emit smoke for 50 to 90 seconds. The grenade body is made of thin sheet metal, filled with starter patches and a violet smoke composition. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.</p> <p>(E35801) BODY GRENADE HAND PRAC M112 The M112 Practice Offensive Hand Grenade (POHG) is a reloadable training grenade for the M111 OHG. It consists of a steel octagonal-shape body with a M228 practice grenade fuze to simulate the visual and audible sounds of the M111 OHG. The M112 POHG is identical in size, shape, and weight to the M111 OHG. Its purpose is to familiarize Soldiers with the components, characteristics, and functioning of the M111 OHG and provide realistic training on arming and employing the munition. This item will be Code A, approved for service use upon achieving Full Materiel Release, which is anticipated for 4Q FY 2024.</p> <p>(E69300) GRENADE HAND SMOKE WHITE M83 Grenade Hand Smoke (White) M83 provides the Warfighter the capability to generate white smoke for screening activities while conducting small unit operations. It is also used for ground-to-air signaling. This grenade is the tactical replacement for the M8 HC Smoke Grenade, which was found to be carcinogenic. The duration of smoke screen or signal is 25 to 70 seconds, average burn time. The grenade body is a cylinder of thin sheet metal. It is filled with non-toxic smoke mixture topped with a starter patch. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.</p>			

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army							Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A											
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	
P-5	E00500 / GRENADE 66MM VEH LNCHD WHITE SMK SCREENING TNG M82 [G978]	P-5a	A		- / 33.242	- / 3.720	- / 7.410	- / 3.711	- / -	- / 3.711	
P-5	E31900 / FUZE, Grenade, Hand, Practice, M228 [G878]		A		- / 280.511	- / 5.708	- / 6.166	- / 3.796	- / -	- / 3.796	
P-5	E31911 / GRENADE, HAND:SMOKE, SCREENING, M330		A		- / -	- / -	- / -	- / 2.968	- / -	- / 2.968	
P-5	E32000 / GRENADE, Hand, Frag, Delay, M67 [G881]		A		- / 348.797	- / 3.358	- / 5.005	- / 0.457	- / -	- / 0.457	
P-5	E32200 / GRENADE HAND INCENDIARY M14 [G900]		A		- / 27.129	- / 7.748	- / -	- / -	- / -	- / -	
P-5	E33010 / GRENADE, HAND OFFENSIVE, M111	P-5a, P-21	A		- / 18.401	- / 5.762	- / 9.593	- / 19.143	- / -	- / 19.143	
P-5	E34001 / GRENADE, Hand, Smoke, Green, M18 [G940]		A		- / 175.859	- / 2.999	- / 2.864	- / 3.554	- / -	- / 3.554	
P-5	E34002 / GRENADE, Hand, Smoke, Yellow, M18 [G945]		A		- / 103.767	- / 5.760	- / 2.424	- / 3.444	- / -	- / 3.444	
P-5	E34003 / GRENADE, Hand, Smoke, Red, M18		A		- / 53.949	- / -	- / -	- / 3.650	- / -	- / 3.650	
P-5	E34004 / GRENADE, Hand, Smoke, Violet, M18 [G955]		A		- / 59.580	- / -	- / 2.789	- / 3.395	- / -	- / 3.395	
P-5	E35801 / BODY, PRACTICE HAND GRENADE, OFFENSIVE, M112 [GG38]		A		- / 4.052	- / -	- / -	- / 1.123	- / -	- / 1.123	
P-5	E69300 / GRENADE, Hand, Smoke, White, M83 [G982]		A		- / 116.044	- / -	- / -	- / 3.133	- / -	- / 3.133	
P-40	Total Gross/Weapon System Cost				- / 1,221.331	- / 35.055	- / 36.251	- / 48.374	- / -	- / 48.374	
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.											
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.											
<p>Justification:</p> <p>FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense (DoD) Instruction 3000.04 (Munitions Requirements Process) and Army Regulation (AR) 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>FY 2024 Total Base dollars in the amount of \$48.374 million supports procurement of eleven variants of Grenades.</p> <p>(E00500) GRENADE 66M VEH LNCHD WHITE SMK SCREENING TNG M82 This is a training unique item not used in combat. FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$3.711 million supports the procurement of 4,400 grenades. Effort is performed at Pine Bluff Arsenal (Pine Bluff, Arkansas). TYPE CLASSIFICATION DATE: Jul 1992.</p> <p>(E31900) FUZE GRENADE HAND PRAC M228</p>											

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>This is a training unique item not used in combat. FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$3.796 million supports the procurement of 183,168 new fuzes. TYPE CLASSIFICATION DATE: March 1971</p> <p>(E31911) GRENADE, HAND SMOKE SCREENING, M330 This is a war reserve item used only in combat. FY 2024 procurement builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$2.968 million support the procurement of 12,303 grenades. Effort is performed at Pine Bluff Arsenal (Pine Bluff, Arkansas). E31911 is a new start in FY 2024. TYPE CLASSIFICATION DATE: TBD; pending review of AR 770-3 guidance.</p> <p>(E32000) GRENADE HAND FRAG DELAY M67 This is a training standard item used in both training and combat. FY 2024 procurement supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.457 million provides engineering support to items in production. TYPE CLASSIFICATION DATE: March 1970</p> <p>(E32200) GRENADE HAND INCENDIARY M14 This is a training standard item used in both training and combat. There is no FY 2024 request. TYPE CLASSIFICATION DATE: 1942</p> <p>(E33010) GRENADE HAND OFFENSIVE M111 This is a training standard item used in both training and combat. FY 2024 procurement supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$19.143 million supports the procurement of 55,844 grenades. TYPE CLASSIFICATION DATE: March 2020</p> <p>(E34001) GRENADE HAND SMOKE GREEN M18 This is a training standard item used in both training and combat. FY 2024 procurement supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$3.554 million supports the procurement of 34,859 grenades. Effort is performed at Pine Bluff Arsenal (Pine Bluff, Arkansas). TYPE CLASSIFICATION DATE: September 1943</p> <p>(E34002) GRENADE HAND SMOKE YELLOW M18 This is a training standard item used in both training and combat. FY 2024 procurement supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$3.444 million supports the procurement of 33,272 grenades. Effort is performed at Pine Bluff Arsenal (Pine Bluff, Arkansas). TYPE CLASSIFICATION DATE: September 1943</p> <p>(E34003) GRENADE HAND SMOKE RED M18 This is a training standard item used in both training and combat. FY 2024 procurement supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$3.650 million supports the procurement of 31,616 grenades. Effort is performed at Pine Bluff Arsenal (Pine Bluff, Arkansas). E34003 is a new start in FY 2024. TYPE CLASSIFICATION DATE: September 1943</p> <p>(E34004) GRENADE HAND SMOKE VIOLET M18 This is a training standard item used in both training and in combat. FY 2024 procurement supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$3.395 million supports the procurement of 29,553 grenades. Effort is performed at Pine Bluff Arsenal (Pine Bluff, Arkansas). TYPE CLASSIFICATION DATE: September 1943</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types	
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A		Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			
<p>(E35801) GRENADE HAND BODY PRACTICE OFFENSIVE M112 This is a training unique item not used in combat. FY 2024 procurement supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$1.123 million supports the procurement of 6,244 grenades. Effort is performed at Pine Bluff Arsenal (Pine Bluff, Arkansas). E35801 is a new start in FY 2024. TYPE CLASSIFICATION DATE: March 2020</p> <p>(E69300) GRENADE HAND SMOKE WHITE M83 This is a training standard item used in both training and combat. FY 2024 procurement supports annual training and builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$3.133 million supports the procurement of 35,647 grenades. Effort is performed at Pine Bluff Arsenal (Pine Bluff, Arkansas). E69300 is a new start in FY 2024. TYPE CLASSIFICATION DATE: July 1994</p>			

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types							Item Number / Title [DODIC]: E00500 / GRENADE 66MM VEH LNCHD WHITE SMK SCREENING TNG M82 [G978]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				33.242		3.720		7.410		3.711		-		3.711					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				33.242		3.720		7.410		3.711		-		3.711					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				33.242		3.720		7.410		3.711		-		3.711					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Hardware Cost																			
Recurring Cost																			
COMPLETE ROUND ^(†)	293.09	35,373	10.368	613.58	4,108	2.521	443.63	11,336	5.029	554.47	4,400	2.440	-	-	-	554.47	4,400	2.440	
Subtotal: Recurring Cost	-	-	10.368	-	-	2.521	-	-	5.029	-	-	2.440	-	-	-	-	-	2.440	
Subtotal: Hardware Cost	-	-	10.368	-	-	2.521	-	-	5.029	-	-	2.440	-	-	-	-	-	2.440	
Support - Acceptance Testing Cost																			
First Article Test	-	-	0.195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Acceptance Testing Cost	-	-	0.195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Support - Product Improvement Cost																			
Production Qualification Test	-	-	-	-	-	-	-	-	0.568	-	-	-	-	-	-	-	-	-	
Reliability	-	-	-	-	-	-	-	-	0.249	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	-	-	-	0.817	-	-	-	-	-	-	-	-	-	
Support - Production Engineering Cost																			
Production Engineering	-	-	22.668	-	-	1.196	-	-	1.562	-	-	1.271	-	-	-	-	-	1.271	
Subtotal: Support - Production Engineering Cost	-	-	22.668	-	-	1.196	-	-	1.562	-	-	1.271	-	-	-	-	-	1.271	
Support - Quality Assurance Cost																			

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47					P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types					Item Number / Title [DODIC]: E00500 / GRENADE 66MM VEH LNCHD WHITE SMK SCREENING TNG M82 [G978]							

ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Quality Assurance	-	-	0.011	-	-	0.004	-	-	0.002	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.011	-	-	0.004	-	-	0.002	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	33.242	-	-	3.720	-	-	7.410	-	-	3.711	-	-	-	-	-	3.711

Remarks:
Production Engineering increased due to change in planned procurement and reflects the pro-rated share for the family of Grenades support.

FY2024 hardware unit price decrease due to decrease in planned procurement.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types					Item Number / Title [DODIC]: E00500 / GRENADE 66MM VEH LNCHD WHITE SMK SCREENING TNG M82 [G978]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND ARSENAL, IL	May 2022	Aug 2023	4,108	613.58	Y		
COMPLETE ROUND		2023	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND ARSENAL, IL	May 2023	Aug 2024	11,336	443.63	Y		
COMPLETE ROUND		2024	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND ARSENAL, IL	Mar 2024	Jun 2025	4,400	554.47	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E31900 / FUZE, Grenade, Hand, Practice, M228 [G878]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				280.511			5.708			6.166			3.796			-			3.796		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				280.511			5.708			6.166			3.796			-			3.796		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				280.511			5.708			6.166			3.796			-			3.796		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
COMPLETE ROUND	7.26	37,192,507	270.092	14.56	238,015	3.465	15.07	282,630	4.259	15.59	183,168	2.856	-	-	-	15.59	183,168	2.856			
Subtotal: Recurring Cost	-	-	270.092	-	-	3.465	-	-	4.259	-	-	2.856	-	-	-	-	-	2.856			
Subtotal: Hardware Cost	-	-	270.092	-	-	3.465	-	-	4.259	-	-	2.856	-	-	-	-	-	2.856			
Support - Acceptance Testing Cost																					
Acceptance Test	-	-	0.014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
First Article Test	-	-	-	-	-	0.083	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Acceptance Testing Cost	-	-	0.014	-	-	0.083	-	-	-	-	-	-	-	-	-	-	-	-			
Support - Product Improvement Cost																					
Reliability	-	-	-	-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-			
Environmental Initiatives	-	-	-	-	-	-	-	-	0.118	-	-	-	-	-	-	-	-	-			
Safety	-	-	-	-	-	-	-	-	0.112	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	-	-	-	0.730	-	-	-	-	-	-	-	-	-			
Support - Production Engineering Cost																					
Production Engineering	-	-	4.122	-	-	0.898	-	-	1.173	-	-	0.936	-	-	-	-	-	0.936			
Subtotal: Support - Production Engineering Cost	-	-	4.122	-	-	0.898	-	-	1.173	-	-	0.936	-	-	-	-	-	0.936			
Support - Quality Assurance Cost																					
Quality Assurance	-	-	0.046	-	-	0.007	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004			

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Exhibit P-5, Cost Analysis: PB 2024 Army														Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types							Item Number / Title [DODIC]: E31900 / FUZE, Grenade, Hand, Practice, M228 [G878]				
ID Code (A=Service Ready, B=Not Service Ready) : A											MDAP/MAIS Code:							
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Quality Assurance Cost	-	-	0.046	-	-	0.007	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Support - Recapitalization Cost																		
Recapitalization	-	-	6.231	-	-	1.084	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Recapitalization Cost	-	-	6.231	-	-	1.084	-	-	-	-	-	-	-	-	-	-	-	-
Support - Staging and Transportation Cost																		
Staging and Transportation	-	-	0.191	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Staging and Transportation Cost	-	-	0.191	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.171	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Study & Analysis Cost	-	-	-	-	-	0.171	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	280.511	-	-	5.708	-	-	6.166	-	-	3.796	-	-	-	-	-	3.796
Remarks: FY2024 hardware unit price increase due to decrease in planned procurement.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E31911 / GRENADE, HAND:SMOKE, SCREENING, M330						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-		-		-		2.968		-		2.968				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				-		-		-		2.968		-		2.968				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				-		-		-		2.968		-		2.968				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	-	-	-	-	-	-	-	-	-	204.63	12,303	2.518	-	-	-	204.63	12,303	2.518
FUZE,HAND GRENADE M201	-	-	-	-	-	-	-	-	-	13.61	12,795	0.174	-	-	-	13.61	12,795	0.174
TOP, GREN	-	-	-	-	-	-	-	-	-	1.18	13,287	0.016	-	-	-	1.18	13,287	0.016
BODY, GREN	-	-	-	-	-	-	-	-	-	1.18	13,287	0.016	-	-	-	1.18	13,287	0.016
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	2.723	-	-	-	-	-	2.723
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	2.723	-	-	-	-	-	2.723
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.244	-	-	-	-	-	0.244
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	0.244	-	-	-	-	-	0.244
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	2.968	-	-	-	-	-	2.968
Remarks: E31911 is a New Start in FY 2024.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E32000 / GRENADE, Hand, Frag, Delay, M67 [G881]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				348.797		3.358		5.005		0.457		-		0.457				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				348.797		3.358		5.005		0.457		-		0.457				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				348.797		3.358		5.005		0.457		-		0.457				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE GRENADE	32.01	10,470,228	335.183	46.98	25,810	1.213	67.12	21,524	1.445	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	335.183	-	-	1.213	-	-	1.445	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	335.183	-	-	1.213	-	-	1.445	-	-	-	-	-	-	-	-	-
Support - Demilitarization Cost																		
TRANSPORTATION	-	-	-	-	-	0.030	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Demilitarization Cost	-	-	-	-	-	0.030	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Production Verification Test	-	-	0.709	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Safety	-	-	-	-	-	0.023	-	-	-	-	-	-	-	-	-	-	-	-
Reliability	-	-	-	-	-	0.282	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	0.709	-	-	0.305	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	12.810	-	-	1.758	-	-	3.554	-	-	0.457	-	-	-	-	-	0.457
Subtotal: Support - Production Engineering Cost	-	-	12.810	-	-	1.758	-	-	3.554	-	-	0.457	-	-	-	-	-	0.457
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.092	-	-	0.007	-	-	0.006	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E32000 / GRENADE, Hand, Frag, Delay, M67 [G881]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Quality Assurance Cost	-	-	0.092	-	-	0.007	-	-	0.006	-	-	-	-	-	-	-	-	-
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.046	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Study & Analysis Cost	-	-	-	-	-	0.046	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	348.797	-	-	3.358	-	-	5.005	-	-	0.457	-	-	-	-	-	0.457
Remarks: FY2024 funding is required to support items in production.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E32200 / GRENADE HAND INCENDIARY M14 [G900]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				27.129		7.748		-		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				27.129		7.748		-		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				27.129		7.748		-		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Grenade, Metal Parts Set	0.86	102,023	0.088	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Load, Assemble, Pack (Lap)	78.77	134,246	10.575	135.91	29,895	4.063	-	-	-	-	-	-	-	-	-	-	-	-
FUZE,HAND GRENADE M201	11.43	81,376	0.930	10.25	31,091	0.319	-	-	-	-	-	-	-	-	-	-	-	-
TOP, GREN	1.15	47,482	0.055	1.18	32,287	0.038	-	-	-	-	-	-	-	-	-	-	-	-
BODY, GREN	1.15	47,482	0.055	1.18	32,287	0.038	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	11.702	-	-	4.458	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	11.702	-	-	4.458	-	-	-	-	-	-	-	-	-	-	-	-
Support - Industrial Facilities Cost																		
Equipment Acquisition or Modernization	-	-	0.757	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Industrial Facilities Cost	-	-	0.757	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	14.661	-	-	3.282	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	14.661	-	-	3.282	-	-	-	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.008	-	-	0.008	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E32200 / GRENADE HAND INCENDIARY M14 [G900]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
	Subtotal: Support - Quality Assurance Cost	-	-	0.008	-	-	0.008	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	27.129	-	-	7.748	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E33010 / GRENADE, HAND OFFENSIVE, M111						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				18.401		5.762		9.593		19.143		-		19.143				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				18.401		5.762		9.593		19.143		-		19.143				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				18.401		5.762		9.593		19.143		-		19.143				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round - M111 ^(†)	382.97	40,674	15.577	161.89	20,217	3.273	311.48	12,555	3.911	224.40	55,844	12.531	-	-	-	224.40	55,844	12.531
BDNPA/F Binder ^(†)	-	-	-	-	-	-	-	-	-	80.58	7,259	0.585	-	-	-	80.58	7,259	0.585
PAX=3 ^(†)	-	-	-	-	-	-	58.00	31,896	1.850	59.16	48,584	2.874	-	-	-	59.16	48,584	2.874
Subtotal: Recurring Cost	-	-	15.577	-	-	3.273	-	-	5.761	-	-	15.991	-	-	-	-	-	15.991
Subtotal: Hardware Cost	-	-	15.577	-	-	3.273	-	-	5.761	-	-	15.991	-	-	-	-	-	15.991
Support - Demilitarization Cost																		
TRANSPORTATION	-	-	-	-	-	0.051	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Demilitarization Cost	-	-	-	-	-	0.051	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Safety	-	-	-	-	-	0.123	-	-	0.250	-	-	-	-	-	-	-	-	-
Production Verification Test	-	-	-	-	-	-	-	-	0.897	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	0.123	-	-	1.147	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	2.824	-	-	2.181	-	-	2.369	-	-	3.150	-	-	-	-	-	3.150
Subtotal: Support - Production Engineering Cost	-	-	2.824	-	-	2.181	-	-	2.369	-	-	3.150	-	-	-	-	-	3.150

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E33010 / GRENADE, HAND OFFENSIVE, M111						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.003	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	0.003	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.131	-	-	0.315	-	-	-	-	-	-	-	-	-
Subtotal: Support - Study & Analysis Cost	-	-	-	-	-	0.131	-	-	0.315	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	18.401	-	-	5.762	-	-	9.593	-	-	19.143	-	-	-	-	-	19.143
Remarks: Production Engineering increased due to change in planned procurement and reflects the pro-rated share for the family of Grenades support. FY2024 hardware unit price decrease due to increase in planned procurement. (†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types				Item Number / Title [DODIC]: E33010 / GRENADE, HAND OFFENSIVE, M111				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Complete Round - M111 ^(†)		2022	DAY & ZIMMERMANN LONE STAR / TEXARKANA, TX	Option / FFP	Rock Island, IL	May 2022	Nov 2023	20,217	161.89	N		
Complete Round - M111 ^(†)		2023	DAY & ZIMMERMANN LONE STAR / TEXARKANA, TX	Option / FFP	Rock Island, IL	May 2023	Nov 2024	12,555	311.48	N		
Complete Round - M111 ^(†)		2024	DAY & ZIMMERMANN LONE STAR / TEXARKANA, TX	Option / FFP	Rock Island, IL	May 2024	Nov 2025	55,844	224.40	N		
BDNPA/F Binder		2024	BAE - BDNPA/F / Kingsport, TN	MIPR	Picatinny Arsenal, NJ	May 2024	Nov 2025	7,259	80.58	N		
PAX=3		2023	BAE - BDNPA/F / Kingsport, TN	Option / FPIF	Rock Island, IL	May 2023	Nov 2024	31,896	58.00	N		
PAX=3		2024	BAE - BDNPA/F / Kingsport, TN	Option / FPIF	Rock Island, IL	May 2024	May 2025	48,584	59.16	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47										P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types																			Item Number / Title [DODIC]: E33010 / GRENADE, HAND OFFENSIVE, M111																				
Cost Elements (Units in Thousands)							Fiscal Year 2022														Fiscal Year 2023														B A L A N C E														
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023																												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																			
Complete Round - M111																																																	
Prior Years Deliveries: 40674																																																	
	1	2022	ARMY	20.217	.000	20.217															A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.217										
	1	2023	ARMY	12.555	.000	12.555																													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	12.555
	1	2024	ARMY	55.844	.000	55.844																																											55.844
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																			

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47										P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types										Item Number / Title [DODIC]: E33010 / GRENADE, HAND OFFENSIVE, M111													
Cost Elements (Units in Thousands)							Fiscal Year 2024													Fiscal Year 2025													B A L A N C E
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024						Calendar Year 2025																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
Complete Round - M111																																	
Prior Years Deliveries: 40674																																	
	1	2022	ARMY	20.217	.000	20.217	-	1.685	1.685	1.685	1.685	1.685	1.685	1.685	1.685	1.685	1.685	1.682													.000		
	1	2023	ARMY	12.555	.000	12.555	-	-	-	-	-	-	-	-	-	-	-	-	1.047	1.047	1.047	1.046	1.046	1.046	1.046	1.046	1.045	1.046	1.046	1.047			
	1	2024	ARMY	55.844	.000	55.844								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55.844		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47										P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types										Item Number / Title [DODIC]: E33010 / GRENADE, HAND OFFENSIVE, M111														
Cost Elements (Units in Thousands)							Fiscal Year 2026													Fiscal Year 2027													B A L A N C E	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
Complete Round - M111																																		
Prior Years Deliveries: 40674																																		
	1	2022	ARMY	20.217	20.217	.000																												.000
	1	2023	ARMY	12.555	11.508	1.047	1.047																											.000
	1	2024	ARMY	55.844	.000	55.844	-	4.904	4.904	4.904	4.904	4.904	4.904	4.904	4.904	4.904	4.904	1.900																.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47					P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types				Item Number / Title [DODIC]: E33010 / GRENADE, HAND OFFENSIVE, M111			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	DAY & ZIMMERMANN LONE STAR - TEXARKANA, TX	400	7,500	15,000	8	8	24	32	6	6	18	24

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E34001 / GRENADE, Hand, Smoke, Green, M18 [G940]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity <i>(Units in Each)</i>				-			-			-			-			-			-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				175.859			2.999			2.864			3.554			-			3.554		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				175.859			2.999			2.864			3.554			-			3.554		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				175.859			2.999			2.864			3.554			-			3.554		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
Grenade, Metal Parts Set	1.91	239,803	0.458	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Load, Assemble, Pack (Lap)	42.15	4,045,690	170.514	62.18	27,728	1.724	59.97	27,104	1.625	64.47	34,859	2.247	-	-	-	64.47	34,859	2.247			
FUZE,HAND GRENADE M201	8.49	233,810	1.986	12.72	28,837	0.367	13.21	28,189	0.372	13.61	36,253	0.493	-	-	-	13.61	36,253	0.493			
TOP, GREN	-	-	-	1.18	29,946	0.035	1.21	29,273	0.035	1.18	37,647	0.044	-	-	-	1.18	37,647	0.044			
BODY, GREN	-	-	-	1.18	29,946	0.035	1.22	29,273	0.036	1.18	37,647	0.044	-	-	-	1.18	37,647	0.044			
Subtotal: Recurring Cost	-	-	172.957	-	-	2.162	-	-	2.069	-	-	2.830	-	-	-	-	-	2.830			
Subtotal: Hardware Cost	-	-	172.957	-	-	2.162	-	-	2.069	-	-	2.830	-	-	-	-	-	2.830			
Support - Acceptance Testing Cost																					
First Article Test	-	-	-	-	-	0.365	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.365	-	-	-	-	-	-	-	-	-	-	-	-			
Support - Product Improvement Cost																					
Reliability	-	-	-	-	-	0.065	-	-	-	-	-	-	-	-	-	-	-	-			
Safety	-	-	-	-	-	-	-	-	0.261	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	0.065	-	-	0.261	-	-	-	-	-	-	-	-	-			
Support - Production Engineering Cost																					
Production Engineering	-	-	2.662	-	-	0.403	-	-	0.529	-	-	0.720	-	-	-	-	-	0.720			

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E34001 / GRENADE, Hand, Smoke, Green, M18 [G940]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Production Engineering Cost	-	-	2.662	-	-	0.403	-	-	0.529	-	-	0.720	-	-	-	-	-	0.720
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.027	-	-	0.003	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Subtotal: Support - Quality Assurance Cost	-	-	0.027	-	-	0.003	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Support - Staging and Transportation Cost																		
Staging and Transportation	-	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Staging and Transportation Cost	-	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-
Support - Study & Analysis Cost																		
Study & Analysis	-	-	0.211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Study & Analysis Cost	-	-	0.211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	175.859	-	-	2.999	-	-	2.864	-	-	3.554	-	-	-	-	-	3.554
Remarks:																		
Production Engineering increased due to change in planned procurement and reflects the pro-rated share for the family of Grenades support.																		
FY2024 hardware unit price increase due to increase in depot rates.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E34002 / GRENADE, Hand, Smoke, Yellow, M18 [G945]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				103.767		5.760		2.424		3.444		-		3.444				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				103.767		5.760		2.424		3.444		-		3.444				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				103.767		5.760		2.424		3.444		-		3.444				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Grenade, Metal Parts Set	1.91	285,291	0.545	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Load, Assemble, Pack (Lap)	43.45	2,246,650	97.615	69.12	64,040	4.426	65.28	21,696	1.416	65.90	33,272	2.193	-	-	-	65.90	33,272	2.193
FUZE,HAND GRENADE M201	8.52	276,652	2.357	12.72	66,602	0.847	13.21	22,563	0.298	13.61	34,602	0.471	-	-	-	13.61	34,602	0.471
TOP, GREN	-	-	-	1.18	69,163	0.082	1.21	23,431	0.028	1.17	35,933	0.042	-	-	-	1.17	35,933	0.042
BODY, GREN	-	-	-	1.18	69,163	0.082	1.22	23,431	0.029	1.18	35,933	0.042	-	-	-	1.18	35,933	0.042
Subtotal: Recurring Cost	-	-	100.517	-	-	5.437	-	-	1.771	-	-	2.748	-	-	-	-	-	2.748
Subtotal: Hardware Cost	-	-	100.517	-	-	5.437	-	-	1.771	-	-	2.748	-	-	-	-	-	2.748
Support - Product Improvement Cost																		
Reliability	-	-	0.517	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	0.517	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	2.707	-	-	0.319	-	-	0.648	-	-	0.691	-	-	-	-	-	0.691
Subtotal: Support - Production Engineering Cost	-	-	2.707	-	-	0.319	-	-	0.648	-	-	0.691	-	-	-	-	-	0.691
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.026	-	-	0.004	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47					P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types					Item Number / Title [DODIC]: E34002 / GRENADE, Hand, Smoke, Yellow, M18 [G945]									
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Subtotal: Support - Quality Assurance Cost	-	-	0.026	-	-	0.004	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Gross/Weapon System Cost	-	-	103.767	-	-	5.760	-	-	2.424	-	-	3.444	-	-	-	-	-	3.444

Remarks:
Production Engineering increased due to change in planned procurement and reflects the pro-rated share for the family of Grenades support.

FY2024 hardware unit price increase due to increase in depot rates.

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E34003 / GRENADE, Hand, Smoke, Red, M18						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				53.949		-		-		3.650		-		3.650				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				53.949		-		-		3.650		-		3.650				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				53.949		-		-		3.650		-		3.650				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
GRENADE, METAL PARTS SET	1.90	104,684	0.199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOAD, ASSEMBLE, PACK (LAP)	423.27	121,955	51.620	-	-	-	-	-	-	76.99	31,616	2.434	-	-	-	76.99	31,616	2.434
FUZE,HAND GRENADE M201	9.44	126,833	1.198	-	-	-	-	-	-	13.61	32,880	0.447	-	-	-	13.61	32,880	0.447
TOP, GREN	1.15	27,027	0.031	-	-	-	-	-	-	1.18	34,145	0.040	-	-	-	1.18	34,145	0.040
BODY, GREN	1.15	27,027	0.031	-	-	-	-	-	-	1.18	34,145	0.040	-	-	-	1.18	34,145	0.040
Subtotal: Recurring Cost	-	-	53.079	-	-	-	-	-	-	-	-	2.962	-	-	-	-	-	2.962
Subtotal: Hardware Cost	-	-	53.079	-	-	-	-	-	-	-	-	2.962	-	-	-	-	-	2.962
Support - Production Engineering Cost																		
Production Engineering	-	-	0.688	-	-	-	-	-	-	-	-	0.688	-	-	-	-	-	0.688
Subtotal: Support - Production Engineering Cost	-	-	0.688	-	-	-	-	-	-	-	-	0.688	-	-	-	-	-	0.688
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	53.949	-	-	-	-	-	-	-	-	3.650	-	-	-	-	-	3.650

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types	Item Number / Title [DODIC]: E34003 / GRENADE, Hand, Smoke, Red, M18
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Remarks: E34003 is a new start in FY 2024.		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E34004 / GRENADE, Hand, Smoke, Violet, M18 [G955]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				59.580		-		2.789		3.395		-		3.395				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				59.580		-		2.789		3.395		-		3.395				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				59.580		-		2.789		3.395		-		3.395				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Grenade, Metal Parts Set	1.91	100,545	0.192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Load, Assemble, Pack (Lap)	45.39	1,253,727	56.909	-	-	-	67.04	28,880	1.936	76.34	29,553	2.256	-	-	-	76.34	29,553	2.256
FUZE,HAND GRENADE M201	8.85	106,250	0.940	-	-	-	13.21	30,035	0.397	13.61	30,734	0.418	-	-	-	13.61	30,734	0.418
TOP, GREN	1.15	9,547	0.011	-	-	-	1.21	31,190	0.038	1.18	31,917	0.038	-	-	-	1.18	31,917	0.038
BODY, GREN	1.15	9,547	0.011	-	-	-	1.22	31,190	0.038	1.18	31,917	0.038	-	-	-	1.18	31,917	0.038
Subtotal: Recurring Cost	-	-	58.063	-	-	-	-	-	2.409	-	-	2.750	-	-	-	-	-	2.750
Subtotal: Hardware Cost	-	-	58.063	-	-	-	-	-	2.409	-	-	2.750	-	-	-	-	-	2.750
Support - Product Improvement Cost																		
Production Verification Test	-	-	0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	1.480	-	-	-	-	-	0.377	-	-	0.642	-	-	-	-	-	0.642
Subtotal: Support - Production Engineering Cost	-	-	1.480	-	-	-	-	-	0.377	-	-	0.642	-	-	-	-	-	0.642
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.020	-	-	-	-	-	0.003	-	-	0.004	-	-	-	-	-	0.004

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types							Item Number / Title [DODIC]: E34004 / GRENADE, Hand, Smoke, Violet, M18 [G955]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
	Subtotal: Support - Quality Assurance Cost	-	-	0.020	-	-	-	-	-	0.003	-	-	0.004	-	-	-	-	-
Gross/Weapon System Cost	-	-	59.580	-	-	-	-	-	2.789	-	-	3.395	-	-	-	-	-	3.395

Remarks:
Production Engineering increased due to change in planned procurement and reflects the pro-rated share for the family of Grenades support.

FY 2024 unit cost increased due to a increase in depot stabilized rate.

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E35801 / BODY, PRACTICE HAND GRENADE, OFFENSIVE, M112 [GG38]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-						
Gross/Weapon System Cost (<i>\$ in Millions</i>)				4.052		-		-		1.123		-		1.123						
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Net Procurement (P-1) (<i>\$ in Millions</i>)				4.052		-		-		1.123		-		1.123						
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Total Obligation Authority (<i>\$ in Millions</i>)				4.052		-		-		1.123		-		1.123						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
COMPLETE ROUND	16.28	211,463	3.441	-	-	-	-	-	-	64.15	6,244	0.401	-	-	-	64.15	6,244	0.401		
Subtotal: Recurring Cost	-	-	3.442	-	-	-	-	-	-	-	-	0.401	-	-	-	-	-	0.401		
Subtotal: Hardware Cost	-	-	3.442	-	-	-	-	-	-	-	-	0.401	-	-	-	-	-	0.401		
Support - Production Engineering Cost																				
Production Engineering	-	-	0.611	-	-	-	-	-	-	-	-	0.722	-	-	-	-	-	0.722		
Subtotal: Support - Production Engineering Cost	-	-	0.611	-	-	-	-	-	-	-	-	0.722	-	-	-	-	-	0.722		
Gross/Weapon System Cost	-	-	4.052	-	-	-	-	-	-	-	-	1.123	-	-	-	-	-	1.123		
Remarks: E35801 is a New Start in FY 2024.																				

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types						Item Number / Title [DODIC]: E69300 / GRENADE, Hand, Smoke, White, M83 [G982]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-		-			
Gross/Weapon System Cost (\$ in Millions)				116.044		-		-		3.133		-		-		3.133			
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-		-			
Net Procurement (P-1) (\$ in Millions)				116.044		-		-		3.133		-		-		3.133			
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-		-			
Total Obligation Authority (\$ in Millions)				116.044		-		-		3.133		-		-		3.133			
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-			
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-		-			
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements		Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																			
Recurring Cost																			
GRENADE, METAL PARTS SET		1.91	258,869	0.494	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LOAD, ASSEMBLE, PACK (LAP)		249.14	455,207	113.410	-	-	-	-	-	-	51.73	35,647	1.844	-	-	-	51.73	35,647	1.844
FUZE,HAND GRENADE M201		8.56	143,309	1.227	-	-	-	-	-	-	13.61	37,072	0.505	-	-	-	13.61	37,072	0.505
TOP, GREN		-	-	-	-	-	-	-	-	-	1.17	38,498	0.045	-	-	-	1.17	38,498	0.045
BODY, GREN		-	-	-	-	-	-	-	-	-	1.18	38,498	0.045	-	-	-	1.18	38,498	0.045
Subtotal: Recurring Cost		-	-	115.131	-	-	-	-	-	-	-	-	2.439	-	-	-	-	-	2.439
Subtotal: Hardware Cost		-	-	115.131	-	-	-	-	-	-	-	-	2.439	-	-	-	-	-	2.439
Support - Production Engineering Cost																			
Production Engineering		-	-	0.882	-	-	-	-	-	-	-	-	0.694	-	-	-	-	-	0.694
Subtotal: Support - Production Engineering Cost		-	-	0.882	-	-	-	-	-	-	-	-	0.694	-	-	-	-	-	0.694
Support - Quality Assurance Cost																			
Quality Assurance		-	-	0.032	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost		-	-	0.032	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost		-	-	116.044	-	-	-	-	-	-	-	-	3.133	-	-	-	-	-	3.133

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: 4582E34000 / Grenades, All Types	Item Number / Title [DODIC]: E69300 / GRENADE, Hand, Smoke, White, M83 [G982]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
Remarks: E69300 is a New Start in FY 2024.		

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition							P-1 Line Item Number / Title: 6038E46900 / Signals, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	359.547	7.585	13.852	23.252	-	23.252	26.528	18.884	31.186	32.543	-	513.377
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	359.547	7.585	13.852	23.252	-	23.252	26.528	18.884	31.186	32.543	-	513.377
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	359.547	7.585	13.852	23.252	-	23.252	26.528	18.884	31.186	32.543	-	513.377
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description:</p> <p>SSN E46500 / Signal, Hand Held White Star Cluster M159 is a new start within the Signals, All Types program in FY 2024</p> <p>SSN E47000 / Signal, Hand Held Green Star Cluster M125A1 is a new start within the Signals, All Types program in FY 2024</p> <p>SSN E49105 / CTG, Impulse, Countermeasure, BBU-35/B is a new start within the Signals, All Types program in FY 2024</p> <p>This budget line includes Signals, All Types.</p> <p>(E46400) Signal, Hand Held Red Star Cluster M158 The Family of Hand Held Signals are individually launched pyrotechnics used for signaling and illumination. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. M158 is a red star cluster signal used primarily for signaling and illuminating missions. The payload is a cluster of five flares that burn for approximately 10 seconds. This item is Code A, approved for service use.</p> <p>(E46500) Signal, Hand Held White Star Cluster M159 The Family of Hand Held Signals are individually launched pyrotechnics used for signaling and illumination. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. M159 is a white star cluster signal used primarily for signaling and illuminating missions. The payload is a cluster of five flares that burn for approximately 10 seconds. This item is Code A, approved for service use.</p> <p>(E46800) Signal, Hand Held White Parachute Flare M127A1 The Family of Hand Held Signals are individually launched pyrotechnics used for signaling and illumination. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. The M127A1 is a white parachute flare used primarily for night time battle field illumination, surface-to-air & surface-to-ground signaling. The flare burns for approximately 50 seconds. This item is Code A, approved for service use.</p> <p>(E47000) Signal, Hand Held Green Star Cluster M125A1 The Family of Hand Held Signals are individually launched pyrotechnics used for signaling and illumination. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. M125A1 is a green star cluster signal used for signaling and illuminating missions. The payload is a cluster of five flares that burn for approximately 10 seconds. This item is Code A, approved for service use.</p> <p>(E49101) Flare, Aircraft Countermeasure, RF (Passive)</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 6038E46900 / Signals, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>The Flare Aircraft Radio Frequency (RF) expendable countermeasures systems are essential parts for Army aircraft survivability and will be employed with currently fielded countermeasures as a cocktail to provide protection against all threats. These advanced decoys will address deficiencies in Army aircraft protection and the safety of its aircrews against Surface-to-Air Missiles (SAM) systems. This item is Code A, approved for service use.</p> <p>(E49105) CTG, Impulse, Countermeasure, BBU-35/B The BBU-35/B Impulse Cartridge is used to ignite and/or eject aircraft countermeasure flares, decoys and chaff (M206, M212, M211 and M1/M839/RR170 Series) designed to protect Army helicopters and fixed wing aircraft against Radar Frequency and Man-portable Air Defense Systems (MANPADS). The BBU-35/B replaces the M796 impulse cartridge used by the Army. The impulse cartridge functions after receiving an electrical signal from the Common Missile Warning System (CMWS). The impulse cartridge produces hot gases that ignites/pushes the flare/decoy payload out of the host aircraft. This item is Code A, approved for service use.</p> <p>(E62900) SMOKE POT PRACTICE M8 The M8 Floating Smoke Pot is a five-gallon metal pail containing about 25 pounds of environmentally acceptable smoke mixture. It is initiated by a pyrotechnic delay igniting fuze. After ignition and about a 25-second delay, a dense smoke cloud is produced for screening purposes to conceal troop, vehicle, or other march movements, particularly at river crossings. It is deployed in a similar manner as the service smoke pots, M4 series and M5. It is used by the individual Soldier in squad, company and battalion units. This item is Code A, approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army							Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition					P-1 Line Item Number / Title: 6038E46900 / Signals, All Types					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A				Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E46400 / Signal, Hand Held Red Star Cluster M158	P-5a	A		- / 36.540	- / -	- / 4.594	- / 4.024	- / -	- / 4.024
P-5	E46500 / Signal, Hand Held White Star Cluster M159 [L307]	P-5a	A		- / 33.907	- / -	- / -	- / 4.757	- / -	- / 4.757
P-5	E46800 / Signal, Hand Held White Parachute Flare M127A1 [L312]	P-5a	A		- / 149.781	- / -	- / 0.307	- / 0.006	- / -	- / 0.006
P-5	E47000 / Signal, Hand Held Green Star Cluster M125A1 [L314]	P-5a	A		- / 63.732	- / -	- / -	- / 0.099	- / -	- / 0.099
P-5	E49101 / Flare, Aircraft Countermeasure, RF (Passive)	P-5a, P-21	A		- / -	- / -	- / 1.036	- / 8.083	- / -	- / 8.083
P-5	E49105 / CTG, Impulse, Countermeasure, BBU-35/B	P-5a	A		- / 7.300	- / -	- / -	- / 0.112	- / -	- / 0.112
P-5	E62900 / SMOKE POT, Practice, M8 [K511]	P-5a	A		- / 68.287	- / 7.585	- / 7.915	- / 6.171	- / -	- / 6.171
P-40	Total Gross/Weapon System Cost				- / 359.547	- / 7.585	- / 13.852	- / 23.252	- / -	- / 23.252
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:

FY 2024 Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2024 Total Base dollars in the amount of \$23.252 million supports the procurement of seven variants of signals.

(E46400) Signal, Hand Held Red Star Cluster M158

This is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$4.024 million supports the procurement of 42,253 signals.

TYPE CLASSIFICATION DATE: 1983.

(E46500) Signal, Hand Held White Star Cluster M159

This is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$4.757 million supports the procurement of 50,110 signals. E46500 is a new start in FY 2024.

TYPE CLASSIFICATION DATE: 1999

(E46800) Signal, Hand Held White Parachute Flare M127A1

This is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.006 million supports the procurement of 50 signals.

TYPE CLASSIFICATION DATE: 1983.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 6038E46900 / Signals, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E47000) Signal, Hand Held Green Star Cluster M125A1 This is a training standard item used in both training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.099 million supports the procurement of 1,042 signals. E47000 is a new start in FY 2024. TYPE CLASSIFICATION DATE: 1983.</p> <p>(E49101) Flare, Aircraft Countermeasure, RF (Passive) This is a war reserve item used in combat. The FY 2024 request builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$8.083 million supports the procurement of 36,353 flares. TYPE CLASSIFICATION DATE TBD</p> <p>(E49105) Cartridge, Impulse, BBU-35/B This is a war reserve item used in combat. The request builds a war reserve inventory in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.112 million supports the procurement of 29,184 flares. E49105 is a new start in FY 2024. TYPE CLASSIFICATION DATE: May 2008.</p> <p>(E62900) Smoke Pot Practice M8 This is a training standard item used in training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$6.171 million supports the procurement of 3,623 smoke pots. TYPE CLASSIFICATION DATE: 1994</p>		

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 6038E46900 / Signals, All Types						Item Number / Title [DODIC]: E46400 / Signal, Hand Held Red Star Cluster M158						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				36.540		-		4.594		4.024		-		4.024				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				36.540		-		4.594		4.024		-		4.024				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				36.540		-		4.594		4.024		-		4.024				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	64.85	457,000	29.636	-	-	-	64.85	55,868	3.623	79.16	42,253	3.345	-	-	-	79.16	42,253	3.345
BOX METAL M548 ^(†)	53.58	19,000	1.018	-	-	-	53.57	2,352	0.126	57.48	1,778	0.102	-	-	-	57.48	1,778	0.102
Subtotal: Recurring Cost	-	-	30.654	-	-	-	-	-	3.749	-	-	3.447	-	-	-	-	-	3.447
Subtotal: Hardware Cost	-	-	30.654	-	-	-	-	-	3.749	-	-	3.447	-	-	-	-	-	3.447
Support - Production Engineering Cost																		
Production Engineering	-	-	5.766	-	-	-	-	-	0.833	-	-	0.565	-	-	-	-	-	0.565
Subtotal: Support - Production Engineering Cost	-	-	5.766	-	-	-	-	-	0.833	-	-	0.565	-	-	-	-	-	0.565
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.120	-	-	-	-	-	0.012	-	-	0.012	-	-	-	-	-	0.012
Subtotal: Support - Quality Assurance Cost	-	-	0.120	-	-	-	-	-	0.012	-	-	0.012	-	-	-	-	-	0.012
Gross/Weapon System Cost	-	-	36.540	-	-	-	-	-	4.594	-	-	4.024	-	-	-	-	-	4.024
Remarks: FY 2024 unit cost growth attributed to increased cost for fabricated metal parts and energetic materials.																		
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 6038E46900 / Signals, All Types					Item Number / Title [DODIC]: E46400 / Signal, Hand Held Red Star Cluster M158			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2023	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Jun 2024	55,868	64.85	Y		
LOAD, ASSEMBLE, PACK (LAP)		2024	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Jun 2025	42,253	79.16	Y		
BOX METAL M548		2023	CONCO INC. / LOUISVILLE, KY	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Jun 2024	2,352	53.57	Y		
BOX METAL M548		2024	CONCO INC. / LOUISVILLE, KY	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Jun 2025	1,778	57.48	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 6038E46900 / Signals, All Types						Item Number / Title [DODIC]: E46500 / Signal, Hand Held White Star Cluster M159 [L307]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				33.907		-		-		4.757		-		4.757				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				33.907		-		-		4.757		-		4.757				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				33.907		-		-		4.757		-		4.757				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap) ^(†)	854.50	39,008	33.332	-	-	-	-	-	-	79.16	50,110	3.967	-	-	-	79.16	50,110	3.967
Box Metal M548 ^(†)	74.25	1,642	0.122	-	-	-	-	-	-	57.48	2,109	0.121	-	-	-	57.48	2,109	0.121
Subtotal: Recurring Cost	-	-	33.454	-	-	-	-	-	-	-	-	4.088	-	-	-	-	-	4.088
Subtotal: Hardware Cost	-	-	33.454	-	-	-	-	-	-	-	-	4.088	-	-	-	-	-	4.088
Support - Production Engineering Cost																		
Production Engineering	-	-	0.446	-	-	-	-	-	-	-	-	0.669	-	-	-	-	-	0.669
Subtotal: Support - Production Engineering Cost	-	-	0.446	-	-	-	-	-	-	-	-	0.669	-	-	-	-	-	0.669
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	33.907	-	-	-	-	-	-	-	-	4.757	-	-	-	-	-	4.757
†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 6038E46900 / Signals, All Types				Item Number / Title [DODIC]: E46500 / Signal, Hand Held White Star Cluster M159 [L307]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Load, Assemble, Pack (Lap)		2024	TO BE SELECTED / TBS01	TBD	ROCK ISLAND ARSENAL, IL	May 2024	Nov 2025	50,110	79.16	Y		
Box Metal M548		2024	CONCO INC. / LOUISVILLE, KY	Option / FFP	ROCK ISLAND ARSENAL, IL	Aug 2024	Jun 2025	2,109	57.48	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023											
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: 6038E46900 / Signals, All Types						Item Number / Title [DODIC]: E46800 / Signal, Hand Held White Parachute Flare M127A1 [L312]								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (<i>Units in Each</i>)				-			-			-			-			-			-		
Gross/Weapon System Cost (<i>\$ in Millions</i>)				149.781			-			0.307			0.006			-			0.006		
Less PY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Net Procurement (P-1) (<i>\$ in Millions</i>)				149.781			-			0.307			0.006			-			0.006		
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Total Obligation Authority (<i>\$ in Millions</i>)				149.781			-			0.307			0.006			-			0.006		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
Load, Assemble, Pack (Lap) ^(t)	1,220.88	121,037	147.772	-	-	-	71.35	3,401	0.243	-	-	-	-	-	-	-	-	-			
Box Metal M548 ^(t)	81.97	5,096	0.418	-	-	-	53.57	143	0.008	-	-	-	-	-	-	-	-	-			
Subtotal: Recurring Cost	-	-	148.189	-	-	-	-	-	0.250	-	-	-	-	-	-	-	-	-			
Subtotal: Hardware Cost	-	-	148.189	-	-	-	-	-	0.250	-	-	-	-	-	-	-	-	-			
Support - Production Engineering Cost																					
Production Engineering	-	-	1.572	-	-	-	-	-	0.053	-	-	0.005	-	-	-	-	-	0.005			
Subtotal: Support - Production Engineering Cost	-	-	1.572	-	-	-	-	-	0.053	-	-	0.005	-	-	-	-	-	0.005			
Support - Quality Assurance Cost																					
Quality Assurance	-	-	0.019	-	-	-	-	-	0.004	-	-	0.001	-	-	-	-	-	0.001			
Subtotal: Support - Quality Assurance Cost	-	-	0.019	-	-	-	-	-	0.004	-	-	0.001	-	-	-	-	-	0.001			
Gross/Weapon System Cost	-	-	149.781	-	-	-	-	-	0.307	-	-	0.006	-	-	-	-	-	0.006			
(t) indicates the presence of a P-5a																					

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 6038E46900 / Signals, All Types					Item Number / Title [DODIC]: E46800 / Signal, Hand Held White Parachute Flare M127A1 [L312]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Load, Assemble, Pack (Lap)		2023	TO BE SELECTED / TBS01	TBD	ROCK ISLAND ARSENAL, IL	May 2023	Nov 2024	3,401	71.35	Y		
Box Metal M548		2023	CONCO INC. / LOUISVILLE, KY	Option / FFP	ROCK ISLAND ARSENAL, IL	Aug 2023	Jun 2024	143	53.57	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 6038E46900 / Signals, All Types						Item Number / Title [DODIC]: E47000 / Signal, Hand Held Green Star Cluster M125A1 [L314]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				63.732		-		-		0.099		-		0.099				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				63.732		-		-		0.099		-		0.099				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				63.732		-		-		0.099		-		0.099				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Load, Assemble, Pack (Lap) ^(†)	318.33	192,939	61.418	-	-	-	-	-	-	79.16	1,042	0.082	-	-	-	79.16	1,042	0.082
Box Metal M548 ^(†)	49.38	7,474	0.369	-	-	-	-	-	-	57.48	43	0.002	-	-	-	57.48	43	0.002
Subtotal: Recurring Cost	-	-	61.787	-	-	-	-	-	-	-	-	0.085	-	-	-	-	-	0.085
Subtotal: Hardware Cost	-	-	61.787	-	-	-	-	-	-	-	-	0.085	-	-	-	-	-	0.085
Support - Production Engineering Cost																		
Production Engineering	-	-	1.919	-	-	-	-	-	-	-	-	0.014	-	-	-	-	-	0.014
Subtotal: Support - Production Engineering Cost	-	-	1.919	-	-	-	-	-	-	-	-	0.014	-	-	-	-	-	0.014
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.026	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.026	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	63.732	-	-	-	-	-	-	-	-	0.099	-	-	-	-	-	0.099
†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 6038E46900 / Signals, All Types				Item Number / Title [DODIC]: E47000 / Signal, Hand Held Green Star Cluster M125A1 [L314]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Load, Assemble, Pack (Lap)		2024	TO BE SELECTED / TBS01	TBD	ROCK ISLAND ARSENAL, IL	May 2024	Nov 2025	1,042	79.16	Y		
Box Metal M548		2024	CONCO INC. / LOUISVILLE, KY	Option / FFP	ROCK ISLAND ARSENAL, IL	May 2024	Jan 2025	43	57.48	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 6038E46900 / Signals, All Types						Item Number / Title [DODIC]: E49101 / Flare, Aircraft Countermeasure, RF (Passive)								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-						
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-		-		1.036		8.083		-		8.083						
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Net Procurement (P-1) (<i>\$ in Millions</i>)				-		-		1.036		8.083		-		8.083						
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Total Obligation Authority (<i>\$ in Millions</i>)				-		-		1.036		8.083		-		8.083						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
COMPLETE FLARE ^(†)	-	-	-	-	-	-	204.00	4,686	0.956	204.00	36,353	7.416	-	-	-	204.00	36,353	7.416		
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	0.956	-	-	7.416	-	-	-	-	-	7.416		
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	0.956	-	-	7.416	-	-	-	-	-	7.416		
Support - Production Engineering Cost																				
Production Engineering	-	-	-	-	-	-	-	-	0.080	-	-	0.667	-	-	-	-	-	0.667		
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	0.080	-	-	0.667	-	-	-	-	-	0.667		
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	1.036	-	-	8.083	-	-	-	-	-	8.083		
(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 6038E46900 / Signals, All Types					Item Number / Title [DODIC]: E49101 / Flare, Aircraft Countermeasure, RF (Passive)			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE FLARE ^(†)		2023	TO BE SELECTED / TBS01	TBD	PICATINNY ARSENAL, NJ	Jan 2025	Jul 2026	4,686	204.00	N		
COMPLETE FLARE ^(†)		2024	TO BE SELECTED / TBS01	TBD	PICATINNY ARSENAL, NJ	Jan 2025	Jul 2026	36,353	204.00	N		

(†) indicates the presence of a P-21

Remarks:
Development efforts for the XM20 E49101 Flare, Aircraft Countermeasure, RF (Passive) are underway within Program Element 0604802A / Project EP7 Aviation Airborne Expendable Countermeasures. Due to a test failure, XM20 Milestone C has moved to December 2024. Production contract award is now planned for January 2025.

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023												
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47										P-1 Line Item Number / Title: 6038E46900 / Signals, All Types										Item Number / Title [DODIC]: E49101 / Flare, Aircraft Countermeasure, RF (Passive)												
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2025										Fiscal Year 2026										B A L A N C E					
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025										Calendar Year 2026															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P	
COMPLETE FLARE																																
	1	2023	ARMY	4.686	.000	4.686				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.686			.000
	1	2024	ARMY	36.353	.000	36.353				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.350	10.500	10.500	10.003	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47								P-1 Line Item Number / Title: 6038E46900 / Signals, All Types												Item Number / Title [DODIC]: E49101 / Flare, Aircraft Countermeasure, RF (Passive)													
Cost Elements (Units in Thousands)							Fiscal Year 2027												Fiscal Year 2028												BALANCE		
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2026	BAL DUE AS OF 1 OCT	Calendar Year 2027												Calendar Year 2028														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
COMPLETE FLARE																																	
	1	2023	ARMY	4.686	4.686	.000																										.000	
	1	2024	ARMY	36.353	26.350	10.003	10.003																										.000
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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Exhibit P-21, Production Schedule: PB 2024 Army						Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47			P-1 Line Item Number / Title: 6038E46900 / Signals, All Types				Item Number / Title [DODIC]: E49101 / Flare, Aircraft Countermeasure, RF (Passive)

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TO BE SELECTED - TBS01	10,000	20,000	40,000	8	6	18	24	6	6	15	21

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 6038E46900 / Signals, All Types						Item Number / Title [DODIC]: E49105 / CTG, Impulse, Countermeasure, BBU-35/B						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				7.300		-		-		0.112		-		0.112				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				7.300		-		-		0.112		-		0.112				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				7.300		-		-		0.112		-		0.112				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	19.80	366,466	7.256	-	-	-	-	-	-	3.52	29,184	0.103	-	-	-	3.52	29,184	0.103
Subtotal: Recurring Cost	-	-	7.256	-	-	-	-	-	-	-	-	0.103	-	-	-	-	-	0.103
Subtotal: Hardware Cost	-	-	7.256	-	-	-	-	-	-	-	-	0.103	-	-	-	-	-	0.103
Support - Production Engineering Cost																		
Production Engineering	-	-	0.044	-	-	-	-	-	-	-	-	0.009	-	-	-	-	-	0.009
Subtotal: Support - Production Engineering Cost	-	-	0.044	-	-	-	-	-	-	-	-	0.009	-	-	-	-	-	0.009
Gross/Weapon System Cost	-	-	7.300	-	-	-	-	-	-	-	-	0.112	-	-	-	-	-	0.112
^(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 6038E46900 / Signals, All Types				Item Number / Title [DODIC]: E49105 / CTG, Impulse, Countermeasure, BBU-35/B				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2024	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	May 2024	Nov 2025	29,184	3.52	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 6038E46900 / Signals, All Types						Item Number / Title [DODIC]: E62900 / SMOKE POT, Practice, M8 [K511]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				68.287		7.585		7.915		6.171		-		6.171				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				68.287		7.585		7.915		6.171		-		6.171				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				68.287		7.585		7.915		6.171		-		6.171				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	4,624.74	11,263	52.088	739.26	4,567	3.376	754.03	5,106	3.850	743.76	3,623	2.695	-	-	-	743.76	3,623	2.695
FUZE,SMOKE POT, FLOATING M208 ^(†)	125.93	11,714	1.475	100.06	4,750	0.475	104.57	5,310	0.555	111.51	3,767	0.420	-	-	-	111.51	3,767	0.420
INNER COVER ASSEMBLY ^(†)	107.24	12,953	1.389	102.48	5,252	0.538	105.56	5,871	0.620	112.10	4,166	0.467	-	-	-	112.10	4,166	0.467
OUTER COVER ASSEMBLY ^(†)	99.62	12,953	1.290	87.63	5,252	0.460	90.26	5,871	0.530	95.85	4,166	0.399	-	-	-	95.85	4,166	0.399
CONTAINER, USED ON SMOKE POT M8 ^(†)	106.05	12,953	1.374	97.26	5,252	0.511	100.18	5,871	0.588	116.60	4,166	0.486	-	-	-	116.60	4,166	0.486
Subtotal: Recurring Cost	-	-	57.617	-	-	5.361	-	-	6.143	-	-	4.467	-	-	-	-	-	4.467
Subtotal: Hardware Cost	-	-	57.617	-	-	5.361	-	-	6.143	-	-	4.467	-	-	-	-	-	4.467
Support - Product Improvement Cost																		
Safety	-	-	-	-	-	0.392	-	-	-	-	-	-	-	-	-	-	-	-
Production Verification Test	-	-	-	-	-	0.305	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	0.697	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47					P-1 Line Item Number / Title: 6038E46900 / Signals, All Types					Item Number / Title [DODIC]: E62900 / SMOKE POT, Practice, M8 [K511]			

ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:			
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Production Engineering	-	-	10.621	-	-	1.523	-	-	1.768	-	-	1.700	-	-	-	-	-	1.700
Subtotal: Support - Production Engineering Cost	-	-	10.621	-	-	1.523	-	-	1.768	-	-	1.700	-	-	-	-	-	1.700
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.049	-	-	0.004	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Subtotal: Support - Quality Assurance Cost	-	-	0.049	-	-	0.004	-	-	0.004	-	-	0.004	-	-	-	-	-	0.004
Gross/Weapon System Cost	-	-	68.287	-	-	7.585	-	-	7.915	-	-	6.171	-	-	-	-	-	6.171

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 6038E46900 / Signals, All Types					Item Number / Title [DODIC]: E62900 / SMOKE POT, Practice, M8 [K511]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2022	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND ARSENAL, IL	Mar 2022	Aug 2023	4,567	739.26	Y		
LOAD, ASSEMBLE, PACK (LAP)		2023	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND ARSENAL, IL	May 2023	Aug 2024	5,106	754.03	Y		
LOAD, ASSEMBLE, PACK (LAP)		2024	PINE BLUFF ARSENAL / PINE BLUFF, AR	PO	ROCK ISLAND ARSENAL, IL	May 2024	Aug 2025	3,623	743.76	Y		
FUZE,SMOKE POT, FLOATING M208		2022	DAY & ZIMMERMANN LONE STAR / TEXARKANA, TX	C / FFP	ROCK ISLAND ARSENAL, IL	Sep 2022	Jul 2023	4,750	100.06	Y		
FUZE,SMOKE POT, FLOATING M208		2023	DAY & ZIMMERMANN LONE STAR / TEXARKANA, TX	Option / FFP	ROCK ISLAND ARSENAL, IL	May 2023	Jun 2023	5,310	104.57	Y		
FUZE,SMOKE POT, FLOATING M208		2024	DAY & ZIMMERMANN LONE STAR / TEXARKANA, TX	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Jun 2024	3,767	111.51	Y		
INNER COVER ASSEMBLY		2022	TOOL MASTERS INC. / TUSCUMBIA, AL	C / FFP	ROCK ISLAND ARSENAL, IL	Jul 2022	Apr 2023	5,252	102.48	Y		
INNER COVER ASSEMBLY		2023	TOOL MASTERS INC. / TUSCUMBIA, AL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Dec 2023	5,871	105.56	Y		
INNER COVER ASSEMBLY		2024	TOOL MASTERS INC. / TUSCUMBIA, AL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Dec 2024	4,166	112.10	Y		
OUTER COVER ASSEMBLY		2022	TOOL MASTERS INC. / TUSCUMBIA, AL	C / FFP	ROCK ISLAND ARSENAL, IL	Jul 2022	Apr 2023	5,252	87.63	Y		
OUTER COVER ASSEMBLY		2023	TOOL MASTERS INC. / TUSCUMBIA, AL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Dec 2023	5,871	90.26	Y		
OUTER COVER ASSEMBLY		2024	TOOL MASTERS INC. / TUSCUMBIA, AL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Dec 2024	4,166	95.85	Y		
CONTAINER, USED ON SMOKE POT M8		2022	TOOL MASTERS INC. / TUSCUMBIA, AL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2022	Dec 2022	5,252	97.26	Y		
CONTAINER, USED ON SMOKE POT M8		2023	TOOL MASTERS INC. / TUSCUMBIA, AL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Dec 2023	5,871	100.18	Y		
CONTAINER, USED ON SMOKE POT M8		2024	TOOL MASTERS INC. / TUSCUMBIA, AL	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Dec 2024	4,166	116.60	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition							P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	312.876	7.350	9.350	11.309	-	11.309	11.300	12.101	12.785	12.286	-	389.357
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	312.876	7.350	9.350	11.309	-	11.309	11.300	12.101	12.785	12.286	-	389.357
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	312.876	7.350	9.350	11.309	-	11.309	11.300	12.101	12.785	12.286	-	389.357
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: SSN E48417 / SIMULATOR, TARGET KILL, XM175 is a new start within the Simulators, All Types program in FY 2024 SSN E50311 / SIMULATOR, CHEM ATTACK, YELLOW SMOKE is a new start within the Simulators, All Types program in FY 2024 SSN E70600 / SIMULATOR, Rocket, Antitank GM Lnchd, M22 (ATWESS) is a new start within the Simulators, All Types program in FY 2024 SSN E91114 / SIMULATOR, LAUNCHING, ANTITANK GUIDED MISSILE AND is a new start within the Simulators, All Types program in FY 2024 SSN E91116 / SIMULATOR, PROJECTILE AIR BURST, EXPLOSIVE: XM181 is a new start within the Simulators, All Types program in FY 2024 This budget line includes Simulators, All Types. (E48417) SIMULATOR, TARGET KILL, XM175 Simulates a destroyed vehicle burning on the battlefield; black smoke with a burn time of 25-30 seconds. This item is Code A, approved for service use. (E49700) M115A2 Artillery Ground Burst Simulator is a hand thrown device that is used in training to simulate battlefield noise and effects (shell in flight and ground explosion) during troop maneuvers. The simulator has a 6-10 second delay followed by a 2-4 second whistle ending with a flash and loud report; the surface danger zone is 35 meters. This item is Code A, approved for service use. (E50200) M116A1 Hand Grenade Simulator is a hand-thrown device used in Force-on-Force training to simulate battlefield noise and effects of a hand grenade during troop maneuvers. It has a 5 to 10 second delay and a 15 meter surface danger zone. This item is Code A, approved for service use. (E50311) SIMULATOR, CHEM ATTACK, YELLOW SMOKE Simulates a nuclear, biological, radiological, or chemical (NBRC) attack on the battlefield; yellow smoke with a burn time of 10-25 seconds. This item is Code A, approved for service use. (E70600) M22 Anti-Tank Weapon Effect Signature Simulator (ATWESS) Guided Missile (GM) Rocket Simulator is used to simulate the TOW, DRAGON or VIPER, including report, flash and smoke through use of an adapter. It is compatible with the Multiple Integrated Laser Engagement System (MILES). This item is Code A, approved for service use. (E88119) M34 Hostile Fire simulator produces a flash and white smoke for simulation of tank gunfire at a distance. The cartridge is fired by the Omega 60 and the BES II launchers during Force-on-Target training scenarios. This item is Code A, approved for service use.												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E88125) M35 Target Hit, White Star simulator produces a sound and white star for simulation of a target being hit by tank or artillery fire. The cartridge is fired by the Omega 60 and BES II launchers during Force-on-Target training scenarios. The cartridge produces a bang of 125 +/- 15 dB at a distance of 20 meters, expels about 8-12 burning stars visible at 1800 meters. This item is Code A, approved for service use.</p> <p>(E88404) SIMULATORS, NON STANDARD, SPECIAL EFFECTS FOR CTCS Simulates gunfire, artillery fire, missile fire, burning vehicles, blast effects and chemical, biological, radiological and nuclear (CBRN) attacks. These items are Code A, approved for service use.</p> <p>(E91114) SIMULATOR, LAUNCHING, ANTITANK GUIDED MISSILE Simulates the visible plume of a surface to air missile or shoulder launched rocket; has a visual signature of 1 burning star with white smoke trail which reaches 140 ft. before self-consuming. This item is Code A, approved for service use.</p> <p>(E91116) SIMULATOR, PROJECTILE AIR BURST, EXPLOSIVE: XM181 Simulates indirect artillery fire; emits a paper projectile which whistles while ascending to a height of 100 - 150 ft. and has a visual flash and smoke report. This item is Code A, approved for service use.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army							Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition					P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types					
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E48417 / SIMULATOR, TARGET KILL, XM175	P-5a	A		- / -	- / -	- / -	- / 0.652	- / -	- / 0.652
P-5	E49700 / SIMULATOR, Projectile Ground Burst, M115A2 [L594]	P-5a, P-21	A		- / 137.416	- / 4.773	- / 3.011	- / 6.291	- / -	- / 6.291
P-5	E50200 / SIMULATOR, Hand Grenade, M116A1 [L601]	P-5a	A		- / 106.306	- / 1.820	- / 3.136	- / 0.118	- / -	- / 0.118
P-5	E50311 / SIMULATOR, CHEM ATTACK, YELLOW SMOKE	P-5a	A		- / -	- / -	- / -	- / 0.056	- / -	- / 0.056
P-5	E70600 / SIMULATOR, Rocket, Antitank GM Lnchd, M22 (ATWESS) [LA77]		A		- / 59.900	- / -	- / -	- / 0.063	- / -	- / 0.063
P-5	E88119 / SIMULATOR, Hostile Fire, M34	P-5a	A		- / 4.523	- / 0.364	- / 1.454	- / 2.189	- / -	- / 2.189
P-5	E88125 / SIMULATOR, Target Hit, M35 (White Star)	P-5a	A		- / 4.731	- / 0.393	- / 1.453	- / 0.695	- / -	- / 0.695
P-5	E88404 / SIMULATORS, Non-Standard, Special Effects, f/CTCs [LZ04]	P-5a	A		- / -	- / -	- / 0.296	- / 0.296	- / -	- / 0.296
P-5	E91114 / SIMULATOR, LAUNCHING, ANTITANK GUIDED MISSILE AND	P-5a	A		- / -	- / -	- / -	- / 0.476	- / -	- / 0.476
P-5	E91116 / SIMULATOR, PROJECTILE AIR BURST, EXPLOSIVE: XM181	P-5a	A		- / -	- / -	- / -	- / 0.473	- / -	- / 0.473
P-40	Total Gross/Weapon System Cost				- / 312.876	- / 7.350	- / 9.350	- / 11.309	- / -	- / 11.309
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
Justification: The FY 2024 Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. FY 2024 Total Base dollars in the amount of \$11.309 million supports the procurement of ten variants of simulators E48417 - SIMULATOR, TARGET KILL, XM175 This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.652 million supports the production of 34,010 Simulators. E48417 is a new start in FY 2024. TYPE CLASSIFICATION DATE: TBD E49700 - SIMULATOR PROJ GND BURST M115A2 This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$6.291 million supports the production of 163,524 Ground Burst Simulators.										

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types	
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A		Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			
TYPE CLASSIFICATION DATE: 1962			
E50200 - SIMULATOR HAND GRENADE M116A1 This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.118 million supports production of 3,734 M116A1 Simulator Hand Grenade. TYPE CLASSIFICATION DATE: 1960			
E50311 / SIMULATOR, CHEM ATTACK, YELLOW SMOKE This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.056 million supports production of 3,425 M116A1 Simulator Hand Grenade. E50311 is a new start in FY 2024. TYPE CLASSIFICATION DATE: TBD			
E70600 - SIMULATOR ANTITANK GM RKT M22 (ATWESS) This is a training unique item not used in combat. The request supports annual training and builds a depot level in accordance with the Army's procurement goal. FY 2024 Base procurement dollars in the amount of \$0.063 million provides engineering support for production items. E70600 is a new start in FY 2024. TYPE CLASSIFICATION DATE: 1984			
E88119 - M34 HOSTILE FIRE SIMULATOR M34 This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$2.189 million supports production of 178,442 simulators. TYPE CLASSIFICATION DATE: October 2006			
E88125 - TARGET HIT (White Star) SIMULATOR M35 This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.695 million supports production of 56,310 simulators. TYPE CLASSIFICATION DATE: October 2006			
E88404 - SIMULATORS, NON STANDARD, SPECIAL EFFECTS FOR CTCs This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.296 million supports production of 16,088 simulators. TYPE CLASSIFICATION DATE: TBD			
E91114 - SIMULATOR, LAUNCHING, ANTITANK GUIDED MISSILE This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.476 million supports production of 22,934 simulators. E91114 is a new start in FY 2024. TYPE CLASSIFICATION DATE: TBD			
E91116 / SIMULATOR, PROJECTILE AIR BURST, EXPLOSIVE: XM181 This is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.473 million supports production of 27,803 simulators. E91116 is a new start in FY 2024. TYPE CLASSIFICATION DATE: TBD			

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types						Item Number / Title [DODIC]: E48417 / SIMULATOR, TARGET KILL, XM175						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		-		-		0.652		-		0.652				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		-		-		0.652		-		0.652				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		-		-		0.652		-		0.652				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	16.71	34,010	0.568	-	-	-	16.71	34,010	0.568
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	0.568	-	-	-	-	-	0.568
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	0.568	-	-	-	-	-	0.568
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	-	-	-	0.030	-	-	-	-	-	0.030
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	-	-	-	0.030	-	-	-	-	-	0.030
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.054	-	-	-	-	-	0.054
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	0.054	-	-	-	-	-	0.054
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	0.652	-	-	-	-	-	0.652
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types				Item Number / Title [DODIC]: E48417 / SIMULATOR, TARGET KILL, XM175				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2024	TO BE SELECTED / TBS01	TBD	PICATINNY ARSENAL, NJ	May 2024	Aug 2025	34,010	16.71	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types					Item Number / Title [DODIC]: E49700 / SIMULATOR, Projectile Ground Burst, M115A2 [L594]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				137.416		4.773		3.011		6.291		-		6.291				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				137.416		4.773		3.011		6.291		-		6.291				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				137.416		4.773		3.011		6.291		-		6.291				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	283.48	471,505	133.662	27.79	151,424	4.208	30.47	81,884	2.495	33.09	163,524	5.411	-	-	-	33.09	163,524	5.411
Subtotal: Recurring Cost	-	-	133.662	-	-	4.208	-	-	2.495	-	-	5.411	-	-	-	-	-	5.411
Subtotal: Hardware Cost	-	-	133.662	-	-	4.208	-	-	2.495	-	-	5.411	-	-	-	-	-	5.411
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	3.585	-	-	0.560	-	-	0.509	-	-	0.876	-	-	-	-	-	0.876
Subtotal: Support - Production Engineering Cost	-	-	3.585	-	-	0.560	-	-	0.509	-	-	0.876	-	-	-	-	-	0.876
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.019	-	-	0.005	-	-	0.007	-	-	0.004	-	-	-	-	-	0.004
Subtotal: Support - Quality Assurance Cost	-	-	0.019	-	-	0.005	-	-	0.007	-	-	0.004	-	-	-	-	-	0.004
Gross/Weapon System Cost	-	-	137.416	-	-	4.773	-	-	3.011	-	-	6.291	-	-	-	-	-	6.291
Remarks: Unit Cost increases in FY2024 are due to new contract award. Yearly escalation and risk were included during contract negotiations due to volatile market conditions at time of award.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types	Item Number / Title [DODIC]: E49700 / SIMULATOR, Projectile Ground Burst, M115A2 [L594]
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types					Item Number / Title [DODIC]: E49700 / SIMULATOR, Projectile Ground Burst, M115A2 [L594]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2022	PYROTECHNIQUE BY GRUCCI INC / RADFORD, VA	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2022	Nov 2023	151,424	27.79	Y		
COMPLETE ROUND ^(†)		2023	PYROTECHNIQUE BY GRUCCI INC / RADFORD, VA	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2023	Apr 2024	81,884	30.47	Y		
COMPLETE ROUND ^(†)		2024	PYROTECHNIQUE BY GRUCCI INC / RADFORD, VA	Option / FFP	ROCK ISLAND ARSENAL, IL	Apr 2024	Apr 2025	163,524	33.09	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47										P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types																			Item Number / Title [DODIC]: E49700 / SIMULATOR, Projectile Ground Burst, M115A2 [L594]																				
Cost Elements (Units in Thousands)							Fiscal Year 2022														Fiscal Year 2023														B A L A N C E														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022														Calendar Year 2023																												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																			
COMPLETE ROUND																																																	
Prior Years Deliveries: 471505																																																	
	1	2022	ARMY	151.424	.000	151.424															A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	151.424										
	1	2023	ARMY	81.884	.000	81.884																													A	-	-	-	-	-	-	-	-	-	-	-	-	-	81.884
	1	2024	ARMY	163.524	.000	163.524																																											163.524
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																			

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Exhibit P-21, Production Schedule: PB 2024 Army																				Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47										P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types										Item Number / Title [DODIC]: E49700 / SIMULATOR, Projectile Ground Burst, M115A2 [L594]															
Cost Elements (Units in Thousands)							Fiscal Year 2024													Fiscal Year 2025													B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
COMPLETE ROUND																																			
Prior Years Deliveries: 471505																																			
	1	2022	ARMY	151.424	.000	151.424	-	12.626	12.618	12.618	12.618	12.618	12.618	12.618	12.618	12.618	12.618	12.618																.000	
	1	2023	ARMY	81.884	.000	81.884	-	-	-	-	-	-	11.884	10.000	10.000	10.000	10.000	10.000	10.000																.000
	1	2024	ARMY	163.524	.000	163.524							A -	-	-	-	-	-	-	-	-	-	-	-	-	21.000	21.000	21.000	20.524	20.000	20.000	40.000			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2024 Army																			Date: March 2023																
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types												Item Number / Title [DODIC]: E49700 / SIMULATOR, Projectile Ground Burst, M115A2 [L594]																
Cost Elements (Units in Thousands)							Fiscal Year 2026												Fiscal Year 2027												B A L A N C E				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026												Calendar Year 2027																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
COMPLETE ROUND																																			
Prior Years Deliveries: 471505																																			
	1	2022	ARMY	151.424	151.424	.000																												.000	
	1	2023	ARMY	81.884	81.884	.000																												.000	
	1	2024	ARMY	163.524	123.524	40.000	20.000	20.000																											.000
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47					P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types				Item Number / Title [DODIC]: E49700 / SIMULATOR, Projectile Ground Burst, M115A2 [L594]			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	PYROTECHNIQUE BY GRUCCI INC - RADFORD, VA	10,000	65,000	100,000	8	8	18	26	6	6	12	18

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types					Item Number / Title [DODIC]: E50200 / SIMULATOR, Hand Grenade, M116A1 [L601]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				106.306		1.820		3.136		0.118		-		0.118				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				106.306		1.820		3.136		0.118		-		0.118				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				106.306		1.820		3.136		0.118		-		0.118				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	269.76	375,877	101.396	21.43	45,276	0.970	26.08	99,400	2.592	26.47	3,734	0.099	-	-	-	26.47	3,734	0.099
Subtotal: Recurring Cost	-	-	101.396	-	-	0.970	-	-	2.592	-	-	0.099	-	-	-	-	-	0.099
Subtotal: Hardware Cost	-	-	101.396	-	-	0.970	-	-	2.592	-	-	0.099	-	-	-	-	-	0.099
Support - Acceptance Testing Cost																		
First Article Test	-	-	0.382	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	0.382	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Production Verification Test	-	-	-	-	-	0.110	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	0.110	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	4.506	-	-	0.307	-	-	0.540	-	-	0.018	-	-	-	-	-	0.018
Subtotal: Support - Production Engineering Cost	-	-	4.506	-	-	0.307	-	-	0.540	-	-	0.018	-	-	-	-	-	0.018
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.022	-	-	0.003	-	-	0.003	-	-	0.002	-	-	-	-	-	0.002
Subtotal: Support - Quality Assurance Cost	-	-	0.022	-	-	0.003	-	-	0.003	-	-	0.002	-	-	-	-	-	0.002

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47					P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types					Item Number / Title [DODIC]: E50200 / SIMULATOR, Hand Grenade, M116A1 [L601]									
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.430	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Study & Analysis Cost	-	-	-	-	-	0.430	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	106.306	-	-	1.820	-	-	3.136	-	-	0.118	-	-	-	-	-	0.118

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types					Item Number / Title [DODIC]: E50200 / SIMULATOR, Hand Grenade, M116A1 [L601]			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	PYROTECHNIQUE BY GRUCCI INC / RADFORD, VA	C / FFP	ROCK ISLAND ARSENAL, IL	Jun 2022	Dec 2023	45,276	21.43	Y		
COMPLETE ROUND		2023	PYROTECHNIQUE BY GRUCCI INC / RADFORD, VA	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2023	Mar 2024	99,400	26.08	Y		
COMPLETE ROUND		2024	PYROTECHNIQUE BY GRUCCI INC / RADFORD, VA	Option / FFP	ROCK ISLAND ARSENAL, IL	Mar 2024	Mar 2025	3,734	26.47	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types						Item Number / Title [DODIC]: E50311 / SIMULATOR, CHEM ATTACK, YELLOW SMOKE						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		-		-		0.056		-		0.056				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		-		-		0.056		-		0.056				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		-		-		0.056		-		0.056				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	15.00	3,425	0.051	-	-	-	15.00	3,425	0.051
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	0.051	-	-	-	-	-	0.051
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	0.051	-	-	-	-	-	0.051
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.005	-	-	-	-	-	0.005
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	0.005	-	-	-	-	-	0.005
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	0.056	-	-	-	-	-	0.056
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types				Item Number / Title [DODIC]: E50311 / SIMULATOR, CHEM ATTACK, YELLOW SMOKE				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2024	TO BE SELECTED / TBS01	Option / FFP	PICATINNY ARSENAL, NJ	May 2024	Aug 2025	3,425	15.00	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types						Item Number / Title [DODIC]: E70600 / SIMULATOR, Rocket, Antitank GM Lnchd, M22 (ATWESS) [LA77]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				59.900		-		-		0.063		-		0.063				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				59.900		-		-		0.063		-		0.063				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				59.900		-		-		0.063		-		0.063				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round	72.25	746,175	53.910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	53.910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	53.910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	5.967	-	-	-	-	-	-	-	-	0.063	-	-	-	-	-	0.063
Subtotal: Support - Production Engineering Cost	-	-	5.967	-	-	-	-	-	-	-	-	0.063	-	-	-	-	-	0.063
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.023	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	59.900	-	-	-	-	-	-	-	-	0.063	-	-	-	-	-	0.063
Remarks: FY 2024 support funding for production engineering is required for production contract award preparations.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types						Item Number / Title [DODIC]: E88119 / SIMULATOR, Hostile Fire, M34						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				4.523		0.364		1.454		2.189		-		2.189				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				4.523		0.364		1.454		2.189		-		2.189				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				4.523		0.364		1.454		2.189		-		2.189				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	92,743.10	42	3.895	-	-	-	7.21	137,217	0.989	7.72	178,442	1.378	-	-	-	7.72	178,442	1.378
Subtotal: Recurring Cost	-	-	3.895	-	-	-	-	-	0.989	-	-	1.378	-	-	-	-	-	1.378
Subtotal: Hardware Cost	-	-	3.895	-	-	-	-	-	0.989	-	-	1.378	-	-	-	-	-	1.378
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Reliability	-	-	0.365	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	0.365	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.263	-	-	0.364	-	-	0.415	-	-	0.811	-	-	-	-	-	0.811
Subtotal: Support - Production Engineering Cost	-	-	0.263	-	-	0.364	-	-	0.415	-	-	0.811	-	-	-	-	-	0.811
Gross/Weapon System Cost	-	-	4.523	-	-	0.364	-	-	1.454	-	-	2.189	-	-	-	-	-	2.189
Remarks: Production Engineering increased due to change in planned procurement and reflects the pro-rated share for the family of Simulators.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47	P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types	Item Number / Title [DODIC]: E88119 / SIMULATOR, Hostile Fire, M34
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types				Item Number / Title [DODIC]: E88119 / SIMULATOR, Hostile Fire, M34				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2023	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Mar 2023	Jun 2024	137,217	7.21	Y		
COMPLETE ROUND		2024	TO BE SELECTED / TBS01	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	178,442	7.72	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types						Item Number / Title [DODIC]: E88125 / SIMULATOR, Target Hit, M35 (White Star)						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				4.731		0.393		1.453		0.695		-		0.695				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				4.731		0.393		1.453		0.695		-		0.695				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				4.731		0.393		1.453		0.695		-		0.695				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	1,369.36	3,263	4.468	6.70	64	*.***	7.21	137,164	0.989	7.72	56,310	0.435	-	-	-	7.72	56,310	0.435
Subtotal: Recurring Cost	-	-	4.468	-	-	0.000	-	-	0.989	-	-	0.435	-	-	-	-	-	0.435
Subtotal: Hardware Cost	-	-	4.468	-	-	0.000	-	-	0.989	-	-	0.435	-	-	-	-	-	0.435
Support - Acceptance Testing Cost																		
First Article Test	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	-	-	-	-
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	0.263	-	-	0.393	-	-	0.414	-	-	0.260	-	-	-	-	-	0.260
Subtotal: Support - Production Engineering Cost	-	-	0.263	-	-	0.393	-	-	0.414	-	-	0.260	-	-	-	-	-	0.260
Gross/Weapon System Cost	-	-	4.731	-	-	0.393	-	-	1.453	-	-	0.695	-	-	-	-	-	0.695
*.*** represents funding below \$1,000.00																		
(†) indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types					Item Number / Title [DODIC]: E88125 / SIMULATOR, Target Hit, M35 (White Star)			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	TO BE SELECTED / TBS01	C / FFP	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2024	64	6.70	Y		
COMPLETE ROUND		2023	TO BE SELECTED / TBS01	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2023	Mar 2024	137,164	7.21	Y		
COMPLETE ROUND		2024	TO BE SELECTED / TBS01	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Mar 2025	56,310	7.72	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47							P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types						Item Number / Title [DODIC]: E88404 / SIMULATORS, Non-Standard, Special Effects, f/CTCs [LZ04]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				-		-		0.296		0.296		-		0.296					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				-		-		0.296		0.296		-		0.296					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				-		-		0.296		0.296		-		0.296					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-			
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-		-			
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Hardware Cost																			
Recurring Cost																			
COMPLETE ROUND ^(†)	-	-	-	-	-	-	16.38	610	0.010	16.88	16,088	0.272	-	-	-	16.88	16,088	0.272	
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	0.010	-	-	0.272	-	-	-	-	-	0.272	
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	0.010	-	-	0.272	-	-	-	-	-	0.272	
Support - Production Engineering Cost																			
Production Engineering	-	-	-	-	-	-	-	-	0.286	-	-	0.024	-	-	-	-	-	0.024	
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	0.286	-	-	0.024	-	-	-	-	-	0.024	
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	0.296	-	-	0.296	-	-	-	-	-	0.296	
(†) indicates the presence of a P-5a																			

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types				Item Number / Title [DODIC]: E88404 / SIMULATORS, Non-Standard, Special Effects, f/CTCs [LZ04]				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2023	TO BE SELECTED / TBS01	TBD	PICATINNY ARSENAL, NJ	May 2023	Aug 2024	610	16.38	N		
COMPLETE ROUND		2024	TO BE SELECTED / TBS01	TBD	PICATINNY ARSENAL, NJ	May 2024	Aug 2025	16,088	16.88	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types						Item Number / Title [DODIC]: E91114 / SIMULATOR, LAUNCHING, ANTITANK GUIDED MISSILE AND								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (Units in Each)				-		-		-		-		-		-						
Gross/Weapon System Cost (\$ in Millions)				-		-		-		0.476		-		0.476						
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-						
Net Procurement (P-1) (\$ in Millions)				-		-		-		0.476		-		0.476						
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-						
Total Obligation Authority (\$ in Millions)				-		-		-		0.476		-		0.476						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (\$ in Millions)				-		-		-		-		-		-						
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-						
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware Cost																				
Recurring Cost																				
COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	19.04	22,934	0.437	-	-	-	19.04	22,934	0.437		
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	0.437	-	-	-	-	-	0.437		
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	0.437	-	-	-	-	-	0.437		
Support - Production Engineering Cost																				
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.039	-	-	-	-	-	0.039		
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	0.039	-	-	-	-	-	0.039		
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	0.476	-	-	-	-	-	0.476		
(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types				Item Number / Title [DODIC]: E91114 / SIMULATOR, LAUNCHING, ANTITANK GUIDED MISSILE AND				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2024	TO BE SELECTED / TBS01	TBD	PICATINNY ARSENAL, NJ	May 2024	Aug 2025	22,934	19.04	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47						P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types						Item Number / Title [DODIC]: E91116 / SIMULATOR, PROJECTILE AIR BURST, EXPLOSIVE: XM181						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		-		-		0.473		-		0.473				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		-		-		0.473		-		0.473				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		-		-		0.473		-		0.473				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	-	-	-	-	-	-	15.60	27,803	0.434	-	-	-	15.60	27,803	0.434
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	0.434	-	-	-	-	-	0.434
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	0.434	-	-	-	-	-	0.434
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.039	-	-	-	-	-	0.039
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	0.039	-	-	-	-	-	0.039
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	0.473	-	-	-	-	-	0.473
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^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army								Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 47				P-1 Line Item Number / Title: 8278E51200 / Simulators, All Types				Item Number / Title [DODIC]: E91116 / SIMULATOR, PROJECTILE AIR BURST, EXPLOSIVE: XM181				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2024	TO BE SELECTED / TBS02	C / FFP	PICATINNY ARSENAL, NJ	May 2024	Aug 2025	27,803	15.60	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition							P-1 Line Item Number / Title: 9847E97900 / REACTIVE ARMOR TILES					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	17.755	-	-	-	-	-	-	-	-	-	17.755
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	17.755	-	-	-	-	-	-	-	-	-	17.755
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	17.755	-	-	-	-	-	-	-	-	-	17.755
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description:												
<p>Reactive armor is an add-on armor to the base vehicle configuration. This armor reacts based on the impact of a threat, reducing or eliminating the damage to the protected vehicle, thus increasing its survivability. Reactive armor tiles vary based on the platform installation design, vehicle threat requirements, and weight margins of the supported platform. It is most effective in protecting against residuals, shaped charges and some kinetic energy threats.</p> <p>(ES97911) - PROJ, Combat Vehicle Reactive Armor Tile</p> <p>The RAT Program was designated as a Program of Record in August 2018 in support of US Government developed tile configurations. Initial production of the US government developed tiles will support achieving the Directed Requirement (DR) for Reactive Armor Tiles and Installation Kits for five (5) armored brigade combat teams consisting of multiple combat platform types. Additionally, these tiles will be painted with the new signature management paint. Newly procured tiles will be painted at the production site, and legacy tiles will be painted as part of the refurbishment process and on site if tiles have already been placed in Army Pre-Positioned Stock. Production beyond the Directed Requirement will take place to meet the Total Munitions Requirements established by G-3/5/7 and to replace consumed tiles. The Vehicle Protection System office is the centralized manager of RAT for the ground combat systems responsible for the accountability and acquisition of tiles.</p>												
Secondary Distribution		FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028		
Army	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	17.755	-	-	-	-	-	-	-	-	-	
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	17.755	-	-	-	-	-	-	-	-	-	
Justification:												
<p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition		P-1 Line Item Number / Title: 9847E97900 / REACTIVE ARMOR TILES
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
There is no FY 2024 request for this program.		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous							P-1 Line Item Number / Title: 0684EB0016 / Ammo Components, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	735.469	1.500	3.823	3.976	-	3.976	4.076	4.075	4.074	4.074	-	761.067
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	735.469	1.500	3.823	3.976	-	3.976	4.076	4.075	4.074	4.074	-	761.067
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	735.469	1.500	3.823	3.976	-	3.976	4.076	4.075	4.074	4.074	-	761.067
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description: This budget line includes the Components and Renovation (C&R) of Field Stock effort as well as Weapon Components in support of Proof Acceptance Testing (PAT). C&R supports renovation for unserviceable training and combat ammunition to bring it back to serviceable condition at a lower cost when compared with procuring new ammunition. The testing efforts include funding to support the Army Test and Evaluation Command (ATEC) at Aberdeen and Yuma Test Centers. Funded testing includes Special Tests, First Article Tests (FAT), Renovation of Field Stocks, and PAT for training and combat ammunition.</p> <p>Justification: FY 2024 Base procurement dollars in the amount of \$2.357 million support the Components and Renovation of Field Stock (C&R) effort. C&R supports the renovation of unserviceable training and combat ammunition, returning unserviceable items to issuable, serviceable condition at a substantial cost savings to the Army when compared to costs to demilitarize and procure new, replacement stock. Proposed C&R efforts undergo cost analysis to compare proposed renovation costs or rework efforts to the cost associated with demilitarization and new procurement to ensure efforts conducted under C&R result in a cost savings to the Army. The efforts are primarily focused on condition codes E and F within Army inventory.</p> <p>FY 2024 Base procurement dollars in the amount of \$1.619 million supports several initiatives at Aberdeen Test Center (ATC) and Yuma Test Center (YTC).</p> <p>At ATC, continue a replacement and procurement program for weapons and weapon components that are worn during testing of production ammunition items. Typical purchases include: rifle/carbine/machine gun barrels, receivers, and parts; large caliber barrels; small and medium caliber Mann-type test barrels, mortar barrels and bipod/baseplates.</p> <p>At YTC, continue to acquire and replace weapon components required for continued support of the Production Acceptance Test (PAT) as part of the indirect fire test mission. Purchases include components such as breeches and tubes for medium to large caliber mortars and cannons.</p> <p>At YTC, continue to procure replacement parts for both large and small caliber direct fire weapon systems for production based support. The primary items to be purchased are recoils, breeches, cradles, and gun tubes for both 120mm M256 and 105mm M68 cannons. In addition, spares will be obtained for 25mm and small arms weapon systems, along with other supporting equipment such as solenoids and bore-sighting equipment.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous							P-1 Line Item Number / Title: 1430E91901 / Non-Lethal Ammunition, All Types					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	14.943	-	-	3.281	-	3.281	-	-	-	-	-	18.224
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	14.943	-	-	3.281	-	3.281	-	-	-	-	-	18.224
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	14.943	-	-	3.281	-	3.281	-	-	-	-	-	18.224
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This budget line item procures Non-Lethal Ammunition, All Types (E84900) GRENADE, STUN, M84 - The M84 Stun Hand Grenades are used as diversionary or distraction devices during building and room clearing operations when the presence of noncombatants is likely or expected and the assaulting element is attempting to achieve surprise. The handheld device is designed to be thrown into a room (through an open door, a standard glass window, or other opening) where it delivers a loud bang and bright flash sufficient to temporarily disorient personnel in the room. This item is Code A, approved for service use.												
Justification: FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities. FY 2024 Total Base dollars in the amount of \$3.281 million supports the procurement of one Non-Lethal Ammunition item. (E84900) GRENADE, STUN, M84 - This is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goal. FY 2024 Base procurement dollars in the amount of \$3.281 million supports the procurement of 27,281 Rounds. Type Classification Date: September 1998												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous							P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	237.274	16.528	18.099	17.436	-	17.436	10.028	10.046	10.087	10.180	-	329.678
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	237.274	16.528	18.099	17.436	-	17.436	10.028	10.046	10.087	10.180	-	329.678
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	237.274	16.528	18.099	17.436	-	17.436	10.028	10.046	10.087	10.180	-	329.678
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description: SSN E01700 / CTG, .22cal Ball Long Rifle Match, f/Rifle is a new start within the Items Less Than \$5 Million (AMMO) program in FY 2024</p> <p>This budget line includes Miscellaneous Ammunition Items Under \$5 million.</p> <p>(E00300) CTG 12 GAUGE SHOTGUN 7 1/2 CHILLED SHOT is a 12 gauge 2 3/4 inch round with #7 1/2 pellets (approximately 2.39mm (0.094") diameter and weighs about 1.25 grains each) and can be fired out of the M26, M1014, Mossberg Model 500/590, and Remington 870/MCS shotguns. This item is Code A, approved for service use.</p> <p>(E01700) CTG, .22cal Ball Long Rifle Match, f/Rifle [A091] is used for military marksmanship training. This items is Code A, approved for service use.</p> <p>(E03001) CTG, CAL .30 BLANK is used for salute ceremonies by Veteran Organizations in the M1 Garand rifles without being equipped with a firing adapter. It can be identified by the absence of a bullet and a rosette crimped casemouth. This item is Code A, approved for service use.</p> <p>(E03701) CTG, .300 Winchester Magnum (WinMag) MK248 procurement supports the M2010 Enhanced Sniper Rifle (ESR). It consists of an Open Tip Match (OTM) bullet, brass case cartridge, large rifle leadstypnhate primer, and smokeless small arms propellant. This item is Code A, approved for service use.</p> <p>(E03710) CTG, .338cal Norma Magnum, AP, XM1162 f/Rifle procurement supports the Mk22 Precision Sniper Rifle (PSR). It is composed of a standard brass cartridge case, propellant, percussion primer and armor piercing projectile. This item is Code A, approved for service use.</p> <p>(E03715) CTG, .30cal Norma Magnum, XM1163 f/Rifle procurement supports the Mk22 Precision Sniper Rifle (PSR). It is composed of a standard brass cartridge case, propellant, percussion primer and copper jacketed projectile. This item is Code A, approved for service use.</p> <p>(E92100) CTG 12 GAUGE BREACHING ROUND, M1030 provides the capability to Soldiers to effectively and safely breach doors with the Mossberg 500/590 and Remington 870/MCS shotguns. The 12-gauge door-breaching cartridge is intended to destroy locks and fixtures on doors and automobiles with little or no collateral damage to the interior. This item is Code A, approved for service use.</p>												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous		P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>(E99101) SPECIAL TRAINING AMMO includes procurement of nonstandard and commercially-available specialty munitions and energetic materiel in support of United States Army troop training requirements defined by the Standards in Training Commission (STRAC) and set forth in Unit Programs of Instruction (POIs). Requirements and authorizations issued by Army G-3 are in accordance with Army Regulation (AR) 350-38 and are vetted through the Army Munitions Requirements Working Group and Council of Colonels. Unit requirements funded by this program include the US Army Military District of Washington, National Guard Bureau and Army Reserve, National and Joint Readiness Training Centers, and US Army Parachute Team.</p> <p>(E99222) Foreign Weapons Training Ammunition. Foreign weapons ammunition procures munitions that have not been Type Classified, Materiel Released or Fielded for standard use by United States Army or other DoD services. It is not stocked/procured in standard DoD supply system. Funds will be used to purchase foreign (Non NATO) standard munitions, training devices and materials, conduct safety and quality assessments, and ship the munitions to their required destination.</p> <p>(EA0600) Ammunition Program Support - The Ammunition Program Support effort enhances the management of ammunition and provides systems and services which the Army is required to provide as the Single Manager for Conventional Ammunition in accordance with DODI 5160.68. Funding is used to enhance the efficiency and effectiveness of ammunition management across the lifecycle through process improvements, generation of metrics and decision support analysis.</p> <p>(EA0960) USAMTU FT BENNING (United States Army Marksmanship Training Unit). This budget line funds procurement of nonstandard and commercially available specialty munitions and energetic materiel in support of US Army Marksmanship Unit training requirements defined by the Standards in Training Commission (STRAC) and set forth in Unit Programs of Instruction (POIs). Requirements and authorizations issued by Army G-3 are in accordance with Army Regulation (AR) 350-38 and are vetted through the Army Munitions Requirements Working Group and Council of Colonels.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army			Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous		P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)	
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A		Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	E00200 / CTG, 12 Gauge Shotgun, 00 Buckshot				- / 6.693	- / 0.231	- / -	- / -	- / -	- / -
P-5	E00300 / CARTRIDGE 12 GAUGE SHOTGUN 7 1/2 CHILLED SHOT [A014]		A		- / 0.240	- / 0.011	- / 0.011	- / 0.006	- / -	- / 0.006
P-5	E01700 / CTG, .22cal Ball Long Rifle Match, f/Rifle [A091]		A		- / 7.545	- / -	- / -	- / 0.055	- / -	- / 0.055
P-5	E03001 / CTG, .30cal Blank, M1909, Single [A222]		A		- / 31.646	- / 0.648	- / 0.932	- / 1.905	- / -	- / 1.905
P-5	E03701 / CTG, .300cal Win Mag, MK248 w/Mods (7.62x67mm) [A191]		A		- / 17.252	- / 0.102	- / 0.357	- / 0.015	- / -	- / 0.015
P-5	E03710 / CTG, .338cal Norma Magnum, AP, XM1162 f/Rifle		A		- / -	- / 5.228	- / 4.400	- / 3.478	- / -	- / 3.478
P-5	E03715 / CTG, .30cal Norma Magnum, XM1163 f/Rifle	P-5a	A		- / -	- / 4.494	- / 5.546	- / 4.156	- / -	- / 4.156
P-5	E92100 / CTG, 12 Gauge Breaching Round, M1030 [AA54]		A		- / 11.064	- / 0.323	- / -	- / -	- / -	- / -
P-5	E99101 / Special Training Ammo:				- / 36.072	- / 0.174	- / 0.693	- / 0.709	- / -	- / 0.709
P-5	E99222 / Foreign Weapons Training Ammunition				- / 2.627	- / 0.324	- / 0.338	- / 0.515	- / -	- / 0.515
P-5	EA0600 / AMMUNITION PROGRAM SUPPORT				- / 80.887	- / 4.523	- / 5.087	- / 5.095	- / -	- / 5.095
P-5	EA0960 / USAMTU FT BENNING				- / 43.248	- / 0.470	- / 0.735	- / 1.502	- / -	- / 1.502
P-40	Total Gross/Weapon System Cost				- / 237.274	- / 16.528	- / 18.099	- / 17.436	- / -	- / 17.436

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:

FY 2024 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements in accordance with Department of Defense Instruction 3000.04 (Munitions Requirements Process) and Army Regulation 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support Office of the Secretary of Defense (OSD) approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

FY 2024 Total Base dollars in the amount of \$17.436 million supports the procurement of 4.865 million cartridges.

(E00300) CTG 12 GAUGE SHOTGUN 7.5 CHILLED SHOT is a war reserve item used in combat. The request builds a war reserve inventory in accordance with the Army's procurement goals. FY 2024 Base dollars in the amount of \$0.006 million support the COCOM requirement for procurement of 0.010 million 12 Gauge Shotgun 7.5 Chilled cartridges to deter potential adversaries and support European Deterrence Initiative. This is a decrease of \$0.005 million from the FY 2023 enacted level.

Type Classification date: November 1975.

(E01700) CTG, .22cal Ball Long Rifle Match, f/Rifle [A091] is a training standard item and is used for military marksmanship training. FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$0.055 million supports the procurement of 0.200 million .22 Caliber LR Match F/Rifle cartridges. E01700 is a new start in FY 2024.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous		P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
Type Classification Guide: January 1990.		
<p>(E03001) CTG, CAL .30 BLANK, M1909 is a training unique item not used in combat. The FY 2024 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2024 Base procurement dollars in the amount of \$1.905 million supports the procurement of 2.599 million .30 Caliber Blank M11909 cartridges.</p> <p>Type classification date: 1917</p>		
<p>(E03701) CTG .300 Winchester Magnum (WinMag) MK248 is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The FY 2024 Base procurement dollars in the amount of \$0.015 million supports the procurement of 0.007 million MK248 cartridges.</p> <p>Type classification date: October 2012</p>		
<p>(E03710) CTG, .338cal Norma Magnum, AP, XM1162 f/Rifle is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The FY 2024 Base procurement dollars in the amount of \$3.478 million supports the procurement of 0.330 million, XM1162 f/Rifle cartridges.</p> <p>Type classification date: Pending</p>		
<p>(E03715) CTG, .30cal Norma Magnum, XM1163 f/Rifle is a training standard item used in both training and combat. The FY 2024 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The FY 2024 Base procurement dollars in the amount of \$4.156 million supports the procurement of 1.403 million, XM1163 f/Rifle cartridges.</p> <p>Type classification date: Pending</p>		
<p>(E92100) CTG 12 GAUGE BREACHING ROUND M1030 is a training standard item used in training and combat. The request supports annual training and builds a depot level in accordance with the Army's procurement goals.</p> <p>Type classification date: October 2007</p>		
<p>(E99101) Special Training Ammunition - FY 2024 funds procure nonstandard and commercially-available specialty munitions and energetic materiel in support of FY 2024 US Army troop training requirements in accordance with DA G3/7-TRA authorizations. FY 2024 base funds in the amount of \$0.709M support Unit training requirements across various Army Units. Authorizations issued under this program vary on an annual basis and are reviewed/updated during semi-annual Army Munitions Requirements Working Groups and Councils of Colonels.</p>		
<p>(E99222) Foreign Weapons Training Ammunition. FY 2024 funds will be used to procure Non DOD Standard Ammunition (NSA), related Non DOD Standard Weapons Systems (NSWS), as well as related training aids for Army units supporting the Regionally Aligned Forces (RAF) mission. Army units will conduct preparation training with Non-standard weapons and munitions before deployment in order to be trained to support requirements, including operational missions, bilateral and multilateral military exercises and security cooperation activities. The FY 2024 Base procurement dollars in the amount of \$0.515 million supports Non Standard Ammunition initiatives.</p>		
<p>(EA0600) Ammunition Program Support - FY 2024 funds in the amount of \$5.095 million provide critical support to efficiently and effectively manage ammunition across the portfolio. Funds support systems and services which are required to be provided by the Army as the Single Manager for Conventional Ammunition in accordance with DODI 5160.68.</p>		
<p>(EA0960) USAMTU Ft. Benning - FY 2024 funds in the amount of \$1.502 million procures nonstandard and commercially-available specialty munitions and energetic materiel in support of Army Marksmanship Unit training requirements. Funds will support DA G-3/7-TRA authorizations issued during FY 2024 Army Munitions Requirements Working Groups and Councils of Colonels in accordance with AR 5-13, the Total Army Munitions Requirements and Prioritization Policy.</p>		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50							P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)							Item Number / Title [DODIC]: E00200 / CTG, 12 Gauge Shotgun, 00 Buckshot							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				6.693			0.231			-			-			-			-		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				6.693			0.231			-			-			-			-		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				6.693			0.231			-			-			-			-		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
COMPLETE ROUND	-	-	6.693	0.77	299,840	0.229	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Recurring Cost	-	-	6.693	-	-	0.229	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Hardware Cost	-	-	6.693	-	-	0.229	-	-	-	-	-	-	-	-	-	-	-	-			
Support - Production Engineering Cost																					
Production Engineering	-	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost	-	-	6.693	-	-	0.231	-	-	-	-	-	-	-	-	-	-	-	-			

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50							P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)						Item Number / Title [DODIC]: E00300 / CARTRIDGE 12 GAUGE SHOTGUN 7 1/2 CHILLED SHOT [A014]					
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				0.240		0.011		0.011		0.006		-		0.006				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				0.240		0.011		0.011		0.006		-		0.006				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				0.240		0.011		0.011		0.006		-		0.006				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND	0.32	634,517	0.201	0.39	21,620	0.008	0.31	20,425	0.006	0.39	9,857	0.004	-	-	-	0.39	9,857	0.004
Subtotal: Recurring Cost	-	-	0.201	-	-	0.008	-	-	0.006	-	-	0.004	-	-	-	-	-	0.004
Subtotal: Hardware Cost	-	-	0.201	-	-	0.008	-	-	0.006	-	-	0.004	-	-	-	-	-	0.004
Support - Production Engineering Cost																		
Production Engineering	-	-	0.039	-	-	0.003	-	-	0.005	-	-	0.002	-	-	-	-	-	0.002
Subtotal: Support - Production Engineering Cost	-	-	0.039	-	-	0.003	-	-	0.005	-	-	0.002	-	-	-	-	-	0.002
Gross/Weapon System Cost	-	-	0.240	-	-	0.011	-	-	0.011	-	-	0.006	-	-	-	-	-	0.006

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50						P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)						Item Number / Title [DODIC]: E01700 / CTG, .22cal Ball Long Rifle Match, f/Rifle [A091]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				7.545		-		-		0.055		-		0.055				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				7.545		-		-		0.055		-		0.055				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				7.545		-		-		0.055		-		0.055				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND	0.30	21,509,258	6.345	-	-	-	-	-	-	0.21	199,502	0.042	-	-	-	0.21	199,502	0.042
Subtotal: Recurring Cost	-	-	6.345	-	-	-	-	-	-	-	-	0.042	-	-	-	-	-	0.042
Subtotal: Hardware Cost	-	-	6.345	-	-	-	-	-	-	-	-	0.042	-	-	-	-	-	0.042
Support - Production Engineering Cost																		
Production Engineering	-	-	1.186	-	-	-	-	-	-	-	-	0.013	-	-	-	-	-	0.013
Subtotal: Support - Production Engineering Cost	-	-	1.186	-	-	-	-	-	-	-	-	0.013	-	-	-	-	-	0.013
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	7.545	-	-	-	-	-	-	-	-	0.055	-	-	-	-	-	0.055

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50						P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)						Item Number / Title [DODIC]: E03001 / CTG, .30cal Blank, M1909, Single [A222]						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				31.646		0.648		0.932		1.905		-		1.905				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				31.646		0.648		0.932		1.905		-		1.905				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				31.646		0.648		0.932		1.905		-		1.905				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND	9.23	3,257,678	30.081	0.51	355,592	0.181	0.55	1,502,490	0.826	0.55	2,599,212	1.430	-	-	-	0.55	2,599,212	1.430
Subtotal: Recurring Cost	-	-	30.081	-	-	0.181	-	-	0.826	-	-	1.430	-	-	-	-	-	1.430
Subtotal: Hardware Cost	-	-	30.081	-	-	0.181	-	-	0.826	-	-	1.430	-	-	-	-	-	1.430
Support - Production Engineering Cost																		
Production Engineering	-	-	1.305	-	-	0.462	-	-	0.101	-	-	0.470	-	-	-	-	-	0.470
Subtotal: Support - Production Engineering Cost	-	-	1.305	-	-	0.462	-	-	0.101	-	-	0.470	-	-	-	-	-	0.470
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.260	-	-	0.005	-	-	0.005	-	-	0.005	-	-	-	-	-	0.005
Subtotal: Support - Quality Assurance Cost	-	-	0.260	-	-	0.005	-	-	0.005	-	-	0.005	-	-	-	-	-	0.005
Gross/Weapon System Cost	-	-	31.646	-	-	0.648	-	-	0.932	-	-	1.905	-	-	-	-	-	1.905

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50						P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)						Item Number / Title [DODIC]: E03701 / CTG, .300cal Win Mag, MK248 w/Mods (7.62x67mm) [A191]						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				17.252		0.102		0.357		0.015		-		0.015				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				17.252		0.102		0.357		0.015		-		0.015				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				17.252		0.102		0.357		0.015		-		0.015				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND	1.10	12,577,398	13.859	-	-	-	1.19	244,168	0.291	1.24	6,822	0.008	-	-	-	1.24	6,822	0.008
Subtotal: Recurring Cost	-	-	13.860	-	-	-	-	-	0.291	-	-	0.008	-	-	-	-	-	0.008
Subtotal: Hardware Cost	-	-	13.860	-	-	-	-	-	0.291	-	-	0.008	-	-	-	-	-	0.008
Support - Production Engineering Cost																		
Production Engineering	-	-	3.370	-	-	0.097	-	-	0.061	-	-	0.002	-	-	-	-	-	0.002
Subtotal: Support - Production Engineering Cost	-	-	3.370	-	-	0.097	-	-	0.061	-	-	0.002	-	-	-	-	-	0.002
Support - Quality Assurance Cost																		
Quality Assurance	-	-	0.021	-	-	0.005	-	-	0.005	-	-	0.005	-	-	-	-	-	0.005
Subtotal: Support - Quality Assurance Cost	-	-	0.021	-	-	0.005	-	-	0.005	-	-	0.005	-	-	-	-	-	0.005
Gross/Weapon System Cost	-	-	17.252	-	-	0.102	-	-	0.357	-	-	0.015	-	-	-	-	-	0.015
Remarks: The price difference from FY 2023 through FY 2024 is due to the step ladder pricing matrix based on quantity ranges. The total combined buy across all services was a lower order quantity which results in higher unit pricing.																		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50						P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)						Item Number / Title [DODIC]: E03710 / CTG, .338cal Norma Magnum, AP, XM1162 f/Rifle						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		5.228		4.400		3.478		-		3.478				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				-		5.228		4.400		3.478		-		3.478				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				-		5.228		4.400		3.478		-		3.478				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND	-	-	-	10.18	497,842	5.068	9.90	415,423	4.113	10.03	329,875	3.309	-	-	-	10.03	329,875	3.309
Subtotal: Recurring Cost	-	-	-	-	-	5.068	-	-	4.113	-	-	3.309	-	-	-	-	-	3.309
Subtotal: Hardware Cost	-	-	-	-	-	5.068	-	-	4.113	-	-	3.309	-	-	-	-	-	3.309
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.154	-	-	0.281	-	-	0.163	-	-	-	-	-	0.163
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.154	-	-	0.281	-	-	0.163	-	-	-	-	-	0.163
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.006	-	-	0.006	-	-	0.006	-	-	-	-	-	0.006
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	0.006	-	-	0.006	-	-	0.006	-	-	-	-	-	0.006
Gross/Weapon System Cost	-	-	-	-	-	5.228	-	-	4.400	-	-	3.478	-	-	-	-	-	3.478

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Exhibit P-5, Cost Analysis: PB 2024 Army											Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50						P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)						Item Number / Title [DODIC]: E03715 / CTG, .30cal Norma Magnum, XM1163 f/Rifle						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		4.494		5.546		4.156		-		4.156				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		4.494		5.546		4.156		-		4.156				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		4.494		5.546		4.156		-		4.156				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND ^(†)	-	-	-	2.58	1,643,307	4.240	2.68	1,882,323	5.045	2.71	1,403,168	3.803	-	-	-	2.71	1,403,168	3.803
Subtotal: Recurring Cost	-	-	-	-	-	4.240	-	-	5.045	-	-	3.803	-	-	-	-	-	3.803
Subtotal: Hardware Cost	-	-	-	-	-	4.240	-	-	5.045	-	-	3.803	-	-	-	-	-	3.803
Support - Production Engineering Cost																		
Production Engineering	-	-	-	-	-	0.249	-	-	0.498	-	-	0.349	-	-	-	-	-	0.349
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	0.249	-	-	0.498	-	-	0.349	-	-	-	-	-	0.349
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.005	-	-	0.003	-	-	0.005	-	-	-	-	-	0.005
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	0.005	-	-	0.003	-	-	0.005	-	-	-	-	-	0.005
Gross/Weapon System Cost	-	-	-	-	-	4.494	-	-	5.546	-	-	4.156	-	-	-	-	-	4.156
† indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Army									Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50				P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)					Item Number / Title [DODIC]: E03715 / CTG, .30cal Norma Magnum, XM1163 f/Rifle			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND		2022	SIG SAUER, INC. / NEWINGTON, NH	C / FFP	PICATINNY ARSENAL, NJ	Jun 2022	Jun 2023	1,643,307	2.58	Y		
COMPLETE ROUND		2023	SIG SAUER, INC. / NEWINGTON, NH	C / FFP	PICATINNY ARSENAL, NJ	Apr 2023	Apr 2024	1,882,323	2.68	Y		
COMPLETE ROUND		2024	SIG SAUER, INC. / NEWINGTON, NH	Option / FFP	PICATINNY ARSENAL, NJ	Mar 2024	Oct 2024	1,403,168	2.71	Y		

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50							P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)							Item Number / Title [DODIC]: E92100 / CTG, 12 Gauge Breaching Round, M1030 [AA54]							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				11.064			0.323			-			-			-			-		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				11.064			0.323			-			-			-			-		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				11.064			0.323			-			-			-			-		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware Cost																					
Recurring Cost																					
COMPLETE ROUND	10.11	1,072,351	10.837	2.80	84,014	0.235	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Recurring Cost	-	-	10.837	-	-	0.235	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Hardware Cost	-	-	10.837	-	-	0.235	-	-	-	-	-	-	-	-	-	-	-	-			
Support - Production Engineering Cost																					
Production Engineering	-	-	0.226	-	-	0.088	-	-	-	-	-	-	-	-	-	-	-	-			
Subtotal: Support - Production Engineering Cost	-	-	0.226	-	-	0.088	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost	-	-	11.064	-	-	0.323	-	-	-	-	-	-	-	-	-	-	-	-			

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50							P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)						Item Number / Title [DODIC]: E99101 / Special Training Ammo:								
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				36.072			0.174			0.693			0.709			-			0.709		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P-1) (\$ in Millions)				36.072			0.174			0.693			0.709			-			0.709		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				36.072			0.174			0.693			0.709			-			0.709		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares (\$ in Millions)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Support - Training Cost																					
Services	-	-	36.072	-	-	0.174	-	-	0.693	-	-	0.709	-	-	-	-	-	0.709			
Subtotal: Support - Training Cost	-	-	36.072	-	-	0.174	-	-	0.693	-	-	0.709	-	-	-	-	-	0.709			
Gross/Weapon System Cost	-	-	36.072	-	-	0.174	-	-	0.693	-	-	0.709	-	-	-	-	-	0.709			
Remarks:																					
FY 2024 base funds in the amount of \$0.709M support Unit training requirements across various Army Units.																					
Authorizations issued under this program vary on an annual basis and are reviewed/updated during semi-annual Army Munitions Requirements Working Groups and Councils of Colonels.																					

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50						P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)						Item Number / Title [DODIC]: E99222 / Foreign Weapons Training Ammunition						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				2.627		0.324		0.338		0.515		-		0.515				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				2.627		0.324		0.338		0.515		-		0.515				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				2.627		0.324		0.338		0.515		-		0.515				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Hardware	1.08	1,702,685	1.839	1.10	206,182	0.227	1.12	212,500	0.238	1.14	316,228	0.360	-	-	-	1.14	316,228	0.360
Subtotal: Recurring Cost	-	-	1.839	-	-	0.227	-	-	0.238	-	-	0.360	-	-	-	-	-	0.360
Subtotal: Hardware Cost	-	-	1.839	-	-	0.227	-	-	0.238	-	-	0.360	-	-	-	-	-	0.360
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	0.550	-	-	0.065	-	-	0.067	-	-	0.105	-	-	-	-	-	0.105
Subtotal: Support - Acceptance Testing Cost	-	-	0.550	-	-	0.065	-	-	0.067	-	-	0.105	-	-	-	-	-	0.105
Support - Production Engineering Cost																		
Production Engineering	-	-	0.238	-	-	0.032	-	-	0.033	-	-	0.050	-	-	-	-	-	0.050
Subtotal: Support - Production Engineering Cost	-	-	0.238	-	-	0.032	-	-	0.033	-	-	0.050	-	-	-	-	-	0.050
Gross/Weapon System Cost	-	-	2.627	-	-	0.324	-	-	0.338	-	-	0.515	-	-	-	-	-	0.515

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023							
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50						P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)						Item Number / Title [DODIC]: EA0600 / AMMUNITION PROGRAM SUPPORT							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				80.887		4.523		5.087		5.095		-		5.095					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				80.887		4.523		5.087		5.095		-		5.095					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				80.887		4.523		5.087		5.095		-		5.095					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-			
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-		-			
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total			
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Support - Single Manager for Conventional Ammunition (SMCA) Cost																			
SMCA Management	-	-	80.887	-	-	4.523	-	-	5.087	-	-	5.095	-	-	-	-	-	5.095	
Subtotal: Support - Single Manager for Conventional Ammunition (SMCA) Cost	-	-	80.887	-	-	4.523	-	-	5.087	-	-	5.095	-	-	-	-	-	5.095	
Gross/Weapon System Cost	-	-	80.887	-	-	4.523	-	-	5.087	-	-	5.095	-	-	-	-	-	5.095	
Remarks: Funds support systems and services which are required to be provided by the Army as the Single Manager for Conventional Ammunition in accordance with DODI 5160.68.																			

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Exhibit P-5, Cost Analysis: PB 2024 Army														Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50							P-1 Line Item Number / Title: 2624EA0055 / Items Less Than \$5 Million (AMMO)							Item Number / Title [DODIC]: EA0960 / USAMTU FT BENNING				
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				43.248		0.470		0.735		1.502		-		1.502				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				43.248		0.470		0.735		1.502		-		1.502				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				43.248		0.470		0.735		1.502		-		1.502				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Training Cost																		
Services	-	-	43.248	-	-	0.470	-	-	0.735	-	-	1.502	-	-	-	-	-	1.502
Subtotal: Support - Training Cost	-	-	43.248	-	-	0.470	-	-	0.735	-	-	1.502	-	-	-	-	-	1.502
Gross/Weapon System Cost	-	-	43.248	-	-	0.470	-	-	0.735	-	-	1.502	-	-	-	-	-	1.502
Remarks: FY 2024 funds in the amount of \$1.502 million procures nonstandard and commercially-available specialty munitions and energetic materiel in support of Army Marksmanship Unit training requirements.																		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous							P-1 Line Item Number / Title: 4370EA0575 / Ammunition Peculiar Equipment					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	389.957	8.924	10.375	13.133	-	13.133	13.277	13.260	13.260	13.260	-	475.446
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	389.957	8.924	10.375	13.133	-	13.133	13.277	13.260	13.260	13.260	-	475.446
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	389.957	8.924	10.375	13.133	-	13.133	13.277	13.260	13.260	13.260	-	475.446
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Ammunition Peculiar Equipment (APE) program provides support for ammunition operations including surveillance, demilitarization, maintenance, renovation, modification, packaging, and preservation per Army Regulation 700-20, Ammunition Peculiar Equipment. This program is developed, acquired, and supervised through the Single Manager for Conventional Ammunition per Department of Defense Instruction 5160.68. APE provides equipment items specifically designed, fabricated, procured, tested, and adopted for use in worldwide United States (US) military ammunition depot operations on conventional ammunition. APE maintains a central source of standard, modern, safe, efficient, reliable, and environmentally acceptable equipment for ammunition operations. This equipment is different from production line plant equipment as it disassembles ammunition items into components, sorts and removes hazardous materials to reduce human interaction and improves personnel safety. Maintenance APE is also designed to perform cleaning and renovation functions on ammunition subjected to deterioration effects (rust, corrosion, weathering, etc) during its storage life. APE supporting surveillance is key to stockpile sampling and functional testing of the items to assure readiness for combat or training. Demilitarization APE is similar to maintenance APE, but must go further in disassembly to destroy hazardous components, sort and reclaim salvageable parts or metals.												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous						P-1 Line Item Number / Title: 4370EA0575 / Ammunition Peculiar Equipment				
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	EA0575 / Ammunition Peculiar Equipment				- / 389.957	- / 8.924	- / 10.375	- / 13.133	- / -	- / 13.133
P-40	Total Gross/Weapon System Cost				- / 389.957	- / 8.924	- / 10.375	- / 13.133	- / -	- / 13.133
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:
Fiscal Year (FY) 2024 Base procurement dollars in the amount of \$13.133 million will be used to procure and repair Ammunition Peculiar Equipment to assist in the maintenance, surveillance and demilitarization missions at depots around the world. APE is required to support the Ammunition Stockpile Reliability Program, Surveillance Program, equipment for worldwide maintenance and demilitarization, prepositioned ships, and Government-Owned, Contractor-Operated plants as Government Furnished Equipment. The APE assets maintain and verify the quality of the ammunition stockpile; thereby saving the cost of purchasing new replacement ammunition. APE proficiently executes the ammunition demilitarization mission to safely perform disassembly, destruction, or removal processes with an emphasis on recycling, re-utilization and preserving demilitarization assets in a manner that supports ammunition sustainment, safety and environmental compliance.

The program provides global support to the US Military Services for ammunition sustainment and demilitarization operations, including deployment, operations and support of the Ammunition Supply Point (ASP) suites. The ASP suites include APE, which will increase the efficiency of the receipt, inspection and issuance of ammunition to the warfighter. Deployment of APE to support ASP suites will increase efficiencies for ammunition sustainment operations by reducing logistics burdens and related risks. This allows for better primary mission readiness, enhanced hazardous operations safety and more efficient operating conditions requiring less ammunition retrograde/demilitarization by providing capability to preserve ammunition assets.

The APE program supports multiple demilitarization processes across the Army's organic base; one of the most widely utilized capabilities is the APE 1236 rotary kiln incinerator and support equipment. The program performed a downtime and efficiency study of this equipment and began implementing initial equipment upgrades and modifications in accordance with a priority roadmap. These modifications will continue throughout and beyond Fiscal Year (FY) 2024. Fiscal Year (FY) 2024 funding will be used to procure, install, integrate and test upgrades at tier 1 and 2 organic facilities. The program will also provide updated specific facility documentations including: technical drawing packages, standard operating procedures, hazard analyses and equipment maintenance responsibilities and procedures.

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50						P-1 Line Item Number / Title: 4370EA0575 / Ammunition Peculiar Equipment						Item Number / Title [DODIC]: EA0575 / Ammunition Peculiar Equipment						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				389.957		8.924		10.375		13.133		-		13.133				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				389.957		8.924		10.375		13.133		-		13.133				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				389.957		8.924		10.375		13.133		-		13.133				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Contractor Logistics Support (CLS) Cost																		
Oversight	-	-	7.479	-	-	0.500	-	-	2.047	-	-	2.064	-	-	-	-	-	2.064
Subtotal: Support - Contractor Logistics Support (CLS) Cost	-	-	7.479	-	-	0.500	-	-	2.047	-	-	2.064	-	-	-	-	-	2.064
Support - Fielding Cost																		
Fielding	-	-	19.008	-	-	0.276	-	-	0.282	-	-	0.282	-	-	-	-	-	0.282
Subtotal: Support - Fielding Cost	-	-	19.008	-	-	0.276	-	-	0.282	-	-	0.282	-	-	-	-	-	0.282
Support - Initial Spares and Repair Parts Cost																		
Initial Spares and Repair Parts	-	-	53.580	-	-	1.750	-	-	1.791	-	-	3.291	-	-	-	-	-	3.291
Subtotal: Support - Initial Spares and Repair Parts Cost	-	-	53.580	-	-	1.750	-	-	1.791	-	-	3.291	-	-	-	-	-	3.291
Support - Peculiar Support Equipment Cost																		
Test and Measurement Equipment	-	-	48.403	-	-	2.523	-	-	2.600	-	-	3.000	-	-	-	-	-	3.000
Subtotal: Support - Peculiar Support Equipment Cost	-	-	48.403	-	-	2.523	-	-	2.600	-	-	3.000	-	-	-	-	-	3.000
Support - Product Improvement Cost																		
Safety	-	-	6.245	-	-	1.550	-	-	2.588	-	-	2.088	-	-	-	-	-	2.088
Subtotal: Support - Product Improvement Cost	-	-	6.245	-	-	1.550	-	-	2.588	-	-	2.088	-	-	-	-	-	2.088

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50						P-1 Line Item Number / Title: 4370EA0575 / Ammunition Peculiar Equipment							Item Number / Title [DODIC]: EA0575 / Ammunition Peculiar Equipment					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Recapitalization Cost																		
Recapitalization	-	-	230.139	-	-	2.050	-	-	0.760	-	-	2.101	-	-	-	-	-	2.101
Subtotal: Support - Recapitalization Cost	-	-	230.139	-	-	2.050	-	-	0.760	-	-	2.101	-	-	-	-	-	2.101
Support - Staging and Transportation Cost																		
Staging and Transportation	-	-	25.103	-	-	0.275	-	-	0.307	-	-	0.307	-	-	-	-	-	0.307
Subtotal: Support - Staging and Transportation Cost	-	-	25.103	-	-	0.275	-	-	0.307	-	-	0.307	-	-	-	-	-	0.307
Gross/Weapon System Cost	-	-	389.957	-	-	8.924	-	-	10.375	-	-	13.133	-	-	-	-	-	13.133

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous							P-1 Line Item Number / Title: 4758EA0550 / First Destination Transportation (AMMO)					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,026.773	5.197	17.528	18.068	-	18.068	18.640	18.627	18.627	18.627	-	1,142.087
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,026.773	5.197	17.528	18.068	-	18.068	18.640	18.627	18.627	18.627	-	1,142.087
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,026.773	5.197	17.528	18.068	-	18.068	18.640	18.627	18.627	18.627	-	1,142.087
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: First Destination Transportation (FDT), as outlined in the DoD Financial Management Regulation (DoDFMR) 7000.14-R Volume 2A, Chapter 1, Para 010205, is that "transportation required to deliver new, an upgraded model, or recapitalized production items from the manufacturer's plant or source of procurement to the first point of delivery where the Military Service or Defense Agency takes possession and/or ownership of that item. The procurement source, as used herein, is any supplier outside the DoD supply system or any DoD industrial activity that fabricates new materiel. The procurement source or the first point of delivery may be in the Continental United States (CONUS) or overseas."												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous						P-1 Line Item Number / Title: 4758EA0550 / First Destination Transportation (AMMO)				
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A			Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	EA0550 / First Destination Transportation (AMMO)				- / 1,026.773	- / 5.197	- / 17.528	- / 18.068	- / -	- / 18.068
P-40	Total Gross/Weapon System Cost				- / 1,026.773	- / 5.197	- / 17.528	- / 18.068	- / -	- / 18.068
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										

Justification:
FY 2024 base funding of \$18.068M is required to support the distribution of Army ammunition end items and components IAW DoD FMR 7000.14-R, Volume 2A, Chapter 1, Para 010205 (Interim Transportation).

Distribution originates from and to CONUS and overseas manufacturing plants/contractors and/or assembly points (e.g., Army Ammunition Plants, Arsenalns, Depots, Contract Management Centers to include Off-shore Procurement Contractors shipping under Free On-board shipping origin terms). Requirements are either destined for CONUS depots for acceptance into the Army Supply System, to CONUS customers, to CONUS Arsenalns, or to ports of embarkation in support of the Call Forward Program (i.e., Training, War Reserve, or the Overseas Contingency Operations).

Funding requirements for this effort promotes readiness and are forecasted based on the overall hardware procurement projections across the Army in a given fiscal year along with associated shipping costs. Funding promotes readiness and supports planned Army Ammunition procurements to avoid failing to meet FOB Origin delivery terms across ammunition contracts.

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Exhibit P-5, Cost Analysis: PB 2024 Army										Date: March 2023										
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 50						P-1 Line Item Number / Title: 4758EA0550 / First Destination Transportation (AMMO)						Item Number / Title [DODIC]: EA0550 / First Destination Transportation (AMMO)								
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total						
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-						
Gross/Weapon System Cost (<i>\$ in Millions</i>)				1,026.773		5.197		17.528		18.068		-		18.068						
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Net Procurement (P-1) (<i>\$ in Millions</i>)				1,026.773		5.197		17.528		18.068		-		18.068						
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Total Obligation Authority (<i>\$ in Millions</i>)				1,026.773		5.197		17.528		18.068		-		18.068						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																				
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-						
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-						
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																				
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total				
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Support - Staging and Transportation Cost																				
Staging and Transportation	-	-	1,026.773	-	-	5.197	-	-	17.528	-	-	18.068	-	-	-	-	-	18.068		
Subtotal: Support - Staging and Transportation Cost	-	-	1,026.773	-	-	5.197	-	-	17.528	-	-	18.068	-	-	-	-	-	18.068		
Gross/Weapon System Cost	-	-	1,026.773	-	-	5.197	-	-	17.528	-	-	18.068	-	-	-	-	-	18.068		
Remarks:																				
Funding requirements for this effort promotes readiness and are forecasted based on the overall hardware procurement projections across the Army in a given fiscal year along with associated shipping costs.																				
Changes in FY 2024 funding are necessary to support planned Army Ammunition procurements. These increases will avoid penalties such as failing to meet FOB Origin delivery terms across ammunition contracts, contract cost growth due to increased storage penalties exceeding shipment costs, and production shutdowns at contractor facilities due to shipment bottlenecks.																				

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous							P-1 Line Item Number / Title: 9615EA8500 / Closeout Liabilities					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.696	0.099	0.101	0.102	-	0.102	0.101	0.102	0.101	0.101	-	1.403
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.696	0.099	0.101	0.102	-	0.102	0.101	0.102	0.101	0.101	-	1.403
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.696	0.099	0.101	0.102	-	0.102	0.101	0.102	0.101	0.101	-	1.403
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Description: Funding will pay contract termination cost and operational losses/claims at ammunition plants. This funding ensures unanticipated future contract liabilities can be satisfied in accordance with Army Contract Review Board (ACRB) approved actions.												
Justification: FY 2024 base procurement dollars of \$0.102 million are required to pay contingent liabilities such as contract termination cost, e.g., unfunded pension liabilities, severance pay, and other claims approved by the ACRB.												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 02: Ammunition Production Base Support / BSA 10: Production Base Support							P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	10,046.133	636.120	1,926.613	726.135	-	726.135	638.885	825.830	1,283.526	667.557	-	16,750.799
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	10,046.133	636.120	1,926.613	726.135	-	726.135	638.885	825.830	1,283.526	667.557	-	16,750.799
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	10,046.133	636.120	1,926.613	726.135	-	726.135	638.885	825.830	1,283.526	667.557	-	16,750.799
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This budget line provides funding for modernization, construction and rehabilitation efforts at Government-Owned, Contractor-Operated (GOCO) Army Ammunition Plants (AAPs) and commercial facilities as well as preservation of inactive production lines at the AAPs. The AAPs were constructed during World War II; the facilities have served and supported numerous theater operations, providing the warfighter with expansive ammunition requirements. Due to their age, the facilities and infrastructure experience frequent failures, and the production lines operate with outdated technology processes and equipment. The Industrial Facilities (IF) budget line consists of three separate programs, Provision of Industrial Facilities (PIF), Layaway of Industrial Facilities (LIF) and Maintenance of Inactive Facilities (MIF). Its mission includes replacement of obsolete or worn production equipment, correction of deficiencies and upgrades to infrastructures. This line represents an enduring, exhaustive mission to modernize and equip the Army's Ammunition Plants and provide decisive advantage of the warfighter's conventional ammunition, explosives and propellant requirements, without delay and at optimal cost. Project Director (PD) Joint Services, under Joint Program Executive Office Armaments and Ammunition, manages the Industrial Facilities budget line.

The Provision of Industrial Facilities program (PIF), SSN EP1200, establishes, augments and improves ammunition production capabilities through strategic modernization efforts, expands production capacity, maintains environmental compliance, and improves quality of work environment and safety at ammunition plants. It also addresses emergency modernization and associated construction to mitigate production disruptions at various sites.

This budget line provides funding for preservation, storage and movement of real property facilities and equipment required for anticipated future requirements at active and inactive Army ammunition installations including the Quad City Cartridge Case Facility (QCCCF) and Government-Owned, Government-Operated (GOGO) AAPs, also known as Layaway of Industrial Facilities (LIF) activities, SSN EP2000. Funding will also support consolidation of layaway production equipment and redistribution of production equipment that cannot be stored on-site. Layaway efforts also include retaining critical operational and technical knowledge of production equipment, such as engineering designs, process data and control manufacturing practices. Layaway program also includes safety-related decontamination, disposal and demolition of production equipment and facilities, and environmental site assessments.

Procurement funds also support the Maintenance of Inactive Facilities (MIF), SSN EP1500, to include utilities, buildings, plant equipment, special tooling, and special test equipment being retained to support future production requirements at GOCO and GOGO AAPs and QCCCF. Additional efforts include support of associated MIF costs such as grounds maintenance, fire protection, equipment security, and administrative support.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army					Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 02: Ammunition Production Base Support / BSA 10: Production Base Support				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities			
ID Code (A=Service Ready, B=Not Service Ready):		Program Elements for Code B Items: N/A			Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: N/A							
Project Schedule		Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Project	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)
(Uncategorized)		-	636.120	1,926.613	726.135	-	726.135
	Holston Army Ammunition Plant	-	202.475	254.000	7.500	-	7.500
P-25	5XX3214 - Treatment Technology Alternatives to Open Burning	-	105.975	60.000	5.000	-	5.000
P-25	5225096 - Ansol Treatment	-	15.000	-	-	-	-
P-25	5225097 - Combined Wash/Filter Facility	-	72.000	-	-	-	-
P-25	5XX5168 - ANSol Tank Farms, (B-5, B-11), Construct	-	-	120.000	2.500	-	2.500
P-25	5225284 - Landfill Expansion Phase III Construction	-	5.500	-	-	-	-
P-25	5XX5178 - TATB Process and Emission Optimization	-	4.000	16.000	-	-	-
P-25	5233978 - RDX Wastewater Infrastructure Design, Upgrades, and Construction	-	-	12.000	-	-	-
P-25	5233979 - Upgrade Laundry Facility Upgrades and Construction	-	-	8.000	-	-	-
P-25	5235177 - Barricade Repairs, Replacements, and Infrastructure Upgrades	-	-	30.000	-	-	-
P-25	5233980 - Road Improvements and Railroad Crossing	-	-	8.000	-	-	-
	Iowa Army Ammunition Plant	-	25.171	160.000	556.560	-	556.560
P-25	5XX5030 - Future Artillery Complex	-	-	50.000	529.830	-	529.830
P-25	5225126 - Building 1 - 11 Inert Storage	-	6.400	-	-	-	-
P-25	5225240 - Primary Water Pump Station	-	2.771	-	-	-	-
P-25	5225241 - Line 3A Sustainment	-	3.000	-	-	-	-
P-25	5225302 - Open Burning Mitigation Technology	-	5.000	-	-	-	-
P-25	5225318 - Asbestos Abatement	-	8.000	-	-	-	-
P-25	5235319 - New Tool & Die Facility	-	-	20.000	-	-	-
P-25	5235320 - Roadway Improvements	-	-	15.000	-	-	-
P-25	5235321 - Energetics Facility	-	-	75.000	-	-	-
P-25	5245322 - Direct Fire Production Facility Design	-	-	-	26.730	-	26.730
	Lake City Army Ammunition Plant	-	79.700	313.550	75.000	-	75.000
P-25	5XX3356 - Small Caliber Modernization, Next Generation Squad Weapon Ammunition facility	-	30.000	313.550	65.000	-	65.000
P-25	5223359 - Next Generation Squad Weapon Ammunition facility, Infrastructure Mod	-	25.000	-	-	-	-
P-25	5225231 - Mix Houses and Neutralization Design	-	14.000	-	-	-	-
P-25	5245233 - Automated Contaminated Waste Plant	-	-	-	10.000	-	10.000
P-25	5225169 - Cyber Critical Infrastructure Risk Management (CIRM) Resiliency	-	6.000	-	-	-	-
P-25	5225234 - Building 1 Roof Replacement	-	4.700	-	-	-	-
	Radford Army Ammunition Plant	-	123.630	181.000	4.000	-	4.000
P-25	5XX3140 - Chemical Grind Facility	-	63.130	50.000	-	-	-
P-25	5XX3753 - Workplace Safety Upgrades	-	9.000	37.000	-	-	-
P-25	5225090 - Alternate Nitrate Ester Facility (NG-3)	-	28.200	-	-	-	-

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army					Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 02: Ammunition Production Base Support / BSA 10: Production Base Support				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities			
ID Code (A=Service Ready, B=Not Service Ready):		Program Elements for Code B Items: N/A			Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: N/A							
Project Schedule		Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Project	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)
P-25	5225141 - Solventless/Rocket Area, Prod Operations	-	15.000	-	-	-	-
P-25	5XX5145 - Solvent Propellant Facility Sustainment, Ph 3	-	8.300	-	4.000	-	4.000
P-25	5233120 - NAC/SAC Process Improvements	-	-	23.500	-	-	-
P-25	5233845 - Steam Distribution System Modernization Phase 1	-	-	37.500	-	-	-
P-25	5233846 - EvenSpeed Roll Mill Upgrade	-	-	28.000	-	-	-
P-25	5233847 - NC Facility Technology, Hammer mill	-	-	5.000	-	-	-
	Scranton Army Ammunition Plant	-	94.363	712.000	7.000	-	7.000
P-25	5223419 - Bliss III Press & Furnace Upgrades	-	2.750	-	-	-	-
P-25	5223719 - Saw Cell Automation & Modernization	-	4.000	-	-	-	-
P-25	5225150 - Infrastructure & Equipment Efforts	-	1.950	-	-	-	-
P-25	5225180 - Artillery Prod Line Mod	-	35.863	-	-	-	-
P-25	5225181 - Steam & Water Piping Mod Upgrades	-	0.500	-	-	-	-
P-25	5225182 - A2 Forge Shop Shot Blast Replacement	-	1.000	-	-	-	-
P-25	5225183 - M795 Pangborn Shot Blast Replacement	-	3.000	-	-	-	-
P-25	5225185 - XM1113/1210 Production Line	-	30.000	-	-	-	-
P-25	5242985 - Electrical System Upgrade Phase 1	-	-	-	7.000	-	7.000
P-25	5XX5186 - 155mm Capacity Improvements	-	10.000	25.000	-	-	-
P-25	5235187 - 155mm Capacity Expansion	-	-	115.000	-	-	-
P-25	5235188 - M795 Long-Term Production Capacity Increase	-	-	243.000	-	-	-
P-25	5235189 - GD Wilkes-Barre M795 Long-Term Production Capacity Increase	-	-	201.500	-	-	-
P-25	5235190 - M107 Production Line Relocation	-	-	127.500	-	-	-
P-25	5223208 - Heat Treat Filter Tower Replacement	-	1.500	-	-	-	-
P-25	5225184 - Process Line Air Compressor Replacement	-	1.000	-	-	-	-
P-25	5225169 - Cyber Critical Infrastructure Risk Management (CIRM) Resiliency	-	1.500	-	-	-	-
P-25	5223922 - Production Shop Concrete Roof Repair	-	1.300	-	-	-	-
	Various Army Ammunition Plants	-	80.477	285.998	56.003	-	56.003
P-25	5XX0000 - Planning & Design in Support of Provision of Industrial Facilities	-	59.577	72.498	48.003	-	48.003
P-25	5XX5405 - Quality of Work Environment Upgrades	-	4.000	9.000	4.000	-	4.000
P-25	5XX5406 - Major Maintenance at GOCO AAPs	-	8.900	4.500	4.000	-	4.000
P-25	5225154 - Critical Spare Parts	-	8.000	-	-	-	-
P-25	5235411 - Safety and Environmental Upgrades	-	-	200.000	-	-	-
	Yuma Proving Ground / Aberdeen Test Center	-	0.160	0.657	0.787	-	0.787
P-25	5XX5060 - Replace Test Instrumentation in Production Acceptance Testing (Ammunition)	-	0.160	0.657	0.787	-	0.787
	Maintenance of Inactive Facilities	-	5.109	6.972	6.930	-	6.930

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army						Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 02: Ammunition Production Base Support / BSA 10: Production Base Support				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities			
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A		Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: N/A							
Project Schedule		Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Project	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)	Total Cost (\$ M)
P-25	5XX4073 - Maintenance of Inactive Facilities	-	5.109	6.972	6.930	-	6.930
	Layaway Of Industrial Facilities	-	25.035	12.436	12.355	-	12.355
P-25	5XX8000 - Layaway Of Industrial Facilities	-	25.035	12.436	12.355	-	12.355
Total Gross/Weapon System Cost		-	636.120	1,926.613	726.135	-	726.135
<p>*For the P-17 and P-25, the Project column displays a three-level indentation: Project Category (e.g., Environmental), followed by the Facility, followed by the Project Name. Exhibits with no Project Category are included under the "Uncategorized" category. For the P-26, the Project column displays a two-level indentation: Project Type (e.g., Inactive Plants, Inactive Lines at Contractor Plants and Inactive Lines at Active Plants), followed by the Facility. Note also that although all P-17, P-25 and P-26 projects are shown in the project schedule, not all projects will have a corresponding exhibit. A P-17 or P-25 exhibit is only included if data beyond the Project Number, Project Title and Cost are included (for example: for the P-17, Description, Manufacturer, etc.; for the P-25, Narrative Explanation, Cost Elements, Principle Milestones, etc.). A P-26 exhibit is only included if data beyond Project Type and Total Cost are included (for example, Description, Contractor, Maintenance/Recurring/Environmental/Other costs, etc.).</p>							
<p>Justification:</p> <p>FY 2024 procurement dollars in the amount of \$726.135 million will support modernization projects to include construction of the Future Artillery Complex facility at Iowa Army Ammunition Plant (AAP); purchase of equipment for the Next Generation Squad Weapon ammunition production facility and construction of an Automated Contaminated Waste Plant at Lake City AAP. Program will also fund infrastructure improvements at Scranton and Radford AAP to maintain production continuity. Additional efforts include, but not limited to, design, work environment projects, improvements for personnel safety and health, and emergent maintenance for all GOCOs. Funds will provide engineering support of industrial facilities, pre-design efforts for future-year modernization projects.</p> <p>FY 2024 funding also supports the protection and preservation of industrial facilities at active and inactive Army ammunition installations and equipment that is no longer required for current production but must be retained for future production needs. Funds support the decontamination and demolition of excess production equipment and facilities buildings at Holston, Iowa, Lake City, and Radford Army Ammunition Plants, and Pine Bluff Arsenal.</p> <p>FY 2024 funding supports the care and maintenance of layaway equipment and facilities at active and inactive ammunition installations.</p>							

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities															
Project Title: Treatment Technology Alternatives to Open Burning						Project Number: 5XX3214	Project Category:														
End Item Supported Model: Research Develop Expl(RDX),High Melt Expl(HMX),Insensitive Mun Expl(IMX)						Annual Capacity Before / After (1-8-5): /															
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Holston Army Ammunition Plant Facility Location: Kingsport, Tennessee Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	49.300	-	5.000	-	5.000	<div>Principal Milestones<div>Month & Year</div><div>Concept Design Complete: Final Design Complete: Initial/Final Project Award: Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:</div><div>Apr 2023 Mar 2021 / Mar 2024 Aug 2026 Aug 2026 Aug 2026 Mar 2027</div></div>															
B. Equipment Cost	47.700	60.000	-	-	-																
C. Equipment Installation Cost	4.500	-	-	-	-																
D. Contractor Support Cost	0.500	-	-	-	-																
E. Corps of Engineers Support Cost	3.500	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	0.475	-	-	-	-																
Total Project Cost	105.975	60.000	5.000	-	5.000	<div>Related Projects</div> <table><tr><th>Project Number</th><th>Title</th><th>FY & Appn</th><th>Value (\$ M)</th><th>Facing</th><th>Start Date</th><th>Compl Date</th></tr><tr><td colspan="7"></td></tr></table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date															
<div>Narrative Explanation:</div> <p>FY 2024 Base procurement dollars in the amount of \$5.000 million supports stack testing for the new flashing furnace at Holston Army Ammunition Plant (AAP). The new facility will dispose of explosive waste generated during the explosives manufacturing process and thermally treats various explosives contaminated materials and some explosive wastes. These materials are currently open burned at the installation. Holston AAP is required to significantly reduce open burning of Material Potentially Presenting an Explosive Hazard (MPPEH) in compliance with DoD Explosives Safety Board (DDESB) and Tennessee Department of Environment and Conservation (TDEC) requirements. The stack testing will determine the optimal mix of these materials/wastes and will support optimization and maintain environmental compliance while improving personnel safety.</p> <p>Additional \$60.000 million included in FY 2023 supplemental appropriations.</p>																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army							Date: March 2023																									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities																										
Project Title: Ansol Treatment						Project Number: 5225096		Project Category:																								
End Item Supported Model: Research Development Explosives (RDX), High Melt Explosives (HMX)							Annual Capacity Before / After (1-8-5): /																									
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Holston Army Ammunition Plant Facility Location: Kingsport, Tennessee Facility Type (GOGO, GOCO, COCO): GOCO																										
A. Construction Cost	-	-	-	-	-	<table border="0" style="width:100%;"> <tr> <td style="width: 70%;">Principal Milestones</td> <td style="width: 30%;">Month & Year</td> </tr> <tr> <td>Concept Design Complete:</td> <td></td> </tr> <tr> <td>Final Design Complete:</td> <td align="center">Apr 2022</td> </tr> <tr> <td>Initial/Final Project Award:</td> <td align="center">Sep 2020 / Mar 2023</td> </tr> <tr> <td>Construction Complete:</td> <td></td> </tr> <tr> <td>Equipment Installation Complete:</td> <td></td> </tr> <tr> <td>Prove Out Begins:</td> <td></td> </tr> <tr> <td>Prove Out Complete:</td> <td></td> </tr> </table>						Principal Milestones	Month & Year	Concept Design Complete:		Final Design Complete:	Apr 2022	Initial/Final Project Award:	Sep 2020 / Mar 2023	Construction Complete:		Equipment Installation Complete:		Prove Out Begins:		Prove Out Complete:						
Principal Milestones	Month & Year																															
Concept Design Complete:																																
Final Design Complete:	Apr 2022																															
Initial/Final Project Award:	Sep 2020 / Mar 2023																															
Construction Complete:																																
Equipment Installation Complete:																																
Prove Out Begins:																																
Prove Out Complete:																																
B. Equipment Cost	-	-	-	-	-																											
C. Equipment Installation Cost	-	-	-	-	-																											
D. Contractor Support Cost	0.250	-	-	-	-																											
E. Corps of Engineers Support Cost	1.500	-	-	-	-																											
F. Other In-House Support Cost	-	-	-	-	-																											
G. Total Facility Project Cost	-	-	-	-	-																											
H. Other Costs	13.250	-	-	-	-	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th align="center" colspan="7">Related Projects</th> </tr> <tr> <th align="center">Project Number</th> <th align="center">Title</th> <th align="center">FY & Appn</th> <th align="center">Value (\$ M)</th> <th align="center">Facing</th> <th align="center">Start Date</th> <th align="center">Compl Date</th> </tr> <tr> <td colspan="7" style="height: 20px;"> </td> </tr> </table>						Related Projects							Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Related Projects																																
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date																										
Total Project Cost	15.000	-	-	-	-																											

Narrative Explanation:

Procurement dollars in the amount of \$15.000 million supports design of an Ammonium Nitrate Solution (ANSOL) treatment facility at Holston Army Ammunition Plant (AAP). Current disposal options are not a long term solution as they can be halted by the disposal company at any time. There is currently only one commercial disposal company identified and efforts to identify other off-site disposal options have been unproductive. ANSol cannot be stored on site at HSAAP more than 90 days. Failure to treat ANSOL will result shutdown of explosives production operations at Holston AAP. This design effort supports the modernization initiative to expand annual production capacity of RDX at Holston AAP from eight million pounds to fifteen million pounds.

A downward adjustment notification was processed and approved.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities															
Project Title: Combined Wash/Filter Facility						Project Number: 5225097															
End Item Supported Model: Research Development Explosives (RDX), High Melt Explosives (HMX)						Project Category:															
						Annual Capacity Before / After (1-8-5): /															
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Holston Army Ammunition Plant Facility Location: Kingsport, Tennessee Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	55.050	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Apr 2022 Initial/Final Project Award: Dec 2020 / Apr 2023 Construction Complete: Dec 2024 Equipment Installation Complete: Dec 2024 Prove Out Begins: Jan 2025 Prove Out Complete: Oct 2025															
B. Equipment Cost	9.500	-	-	-	-																
C. Equipment Installation Cost	6.000	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	1.450	-	-	-	-																
Total Project Cost	72.000	-	-	-	-	Related Projects <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="text-align: center;">Project Number</th> <th style="text-align: center;">Title</th> <th style="text-align: center;">FY & Appn</th> <th style="text-align: center;">Value (\$ M)</th> <th style="text-align: center;">Facing</th> <th style="text-align: center;">Start Date</th> <th style="text-align: center;">Compl Date</th> </tr> <tr> <td colspan="7" style="height: 20px;"> </td> </tr> </table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date															
Narrative Explanation: Procurement dollars in the amount of \$72.000 million supports construction of a combined Wash and Filtration facility at Holston Army Ammunition Plant. This effort supports the modernization initiative to expand annual production capacity of RDX at Holston AAP from eight million pounds to fifteen million pounds. The existing Wash/Filtration capabilities cannot support future RDX production requirements. The new facility will be designed to support a minimum annual production of nine million pounds of washed crude RDX or 2.3 million pounds of High Melt Explosives (HMX). An upward adjustment notification was processed and approved.																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities																	
Project Title: ANSol Tank Farms, (B-5, B-11), Construct				Project Number: 5XX5168		Project Category:															
End Item Supported Model: Research Development Explosives (RDX), High Melt Explosives (HMX)						Annual Capacity Before / After (1-8-5): /															
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Holston Army Ammunition Plant Facility Location: Kingsport, Tennessee Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	-	113.300	2.500	-	2.500	<div>Principal Milestones<div>Month & Year</div><div>Concept Design Complete: Final Design Complete: Initial/Final Project Award: Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:</div><div>Dec 2020 Dec 2019 / May 2024 May 2025 May 2025 Jun 2025 May 2026</div></div>															
B. Equipment Cost	-	-	-	-	-																
C. Equipment Installation Cost	-	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	6.200	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	-	0.500	-	-	-																
Total Project Cost	-	120.000	2.500	-	2.500	<div>Related Projects</div> <table><tr><th>Project Number</th><th>Title</th><th>FY & Appn</th><th>Value (\$ M)</th><th>Facing</th><th>Start Date</th><th>Compl Date</th></tr><tr><td colspan="7"></td></tr></table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date															
<div>Narrative Explanation:</div> <p>FY 2024 Base procurement dollars in the amount of \$2.500 million supports replacement and construction of acid tanks in the B-5 and B-11 areas at Holston Army Ammunition Plant (AAP). The tanks support the storage of Ammonium Nitrate Solution (ANSol), a byproduct of Holston AAP RDX and HMX production operations. The existing acid tank farm is insufficient to support future RDX and HMX production requirements. The new tank farm will be compliant with all necessary RCRA (Resource Conservation and Recovery Act) requirements for the maintenance and storage of hazardous materials.</p> <p>Additional \$40.000 million included in FY 2023 supplemental appropriations.</p>																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army							Date: March 2023																
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities																	
Project Title: Landfill Expansion Phase III Construction						Project Number: 5225284		Project Category:															
End Item Supported Model: Research Develop Expl (RDX), High Melt Expl (HMX), Insensitive Mun Expl (IMX)						Annual Capacity Before / After (1-8-5): /																	
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Holston Army Ammunition Plant Facility Location: Kingsport, Tennessee Facility Type (GOGO, GOCO, COCO): GOCO																	
A. Construction Cost	2.500	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Dec 2022 Construction Complete: Aug 2024 Equipment Installation Complete: Prove Out Begins: Prove Out Complete:																	
B. Equipment Cost	1.750	-	-	-	-																		
C. Equipment Installation Cost	0.750	-	-	-	-																		
D. Contractor Support Cost	0.500	-	-	-	-																		
E. Corps of Engineers Support Cost	-	-	-	-	-																		
F. Other In-House Support Cost	-	-	-	-	-																		
G. Total Facility Project Cost	-	-	-	-	-																		
H. Other Costs	-	-	-	-	-																		
Total Project Cost	5.500	-	-	-	-	Related Projects <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="text-align: center;">Project Number</th> <th style="text-align: center;">Title</th> <th style="text-align: center;">FY & Appn</th> <th style="text-align: center;">Value (\$ M)</th> <th style="text-align: center;">Facing</th> <th style="text-align: center;">Start Date</th> <th style="text-align: center;">Compl Date</th> </tr> <tr> <td colspan="7" style="height: 20px;"> </td> </tr> </table>				Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date																	
Narrative Explanation: Procurement dollars in the amount of \$5.500 million supports increasing Holston Army Ammunition Plant's (AAP) onsite class II landfill capacity. Holston AAP requires a capacity increase to the onsite Class II landfill to extend the service life of ~25 years. Effort will facilitate the full management of solid waste generated onsite and to continue managing solid waste that cannot be disposed of at an off-site public Class I landfill. Effort also supports a leachate management system with electrical power routed to the landfill to power pumps, and additional storm water management and groundwater monitoring. Execution of this project will allow continual onsite waste management and disposal while maintaining compliance with the environmental permits. Additional FY 2022 funding was part of a congressional add.																							

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: TATB Process and Emission Optimization						Project Number: 5XX5178	Project Category:					
End Item Supported Model: PBX-9502 and LX-17						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Holston Army Ammunition Plant Facility Location: Kingsport, Tennessee Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	6.000	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Dec 2022 / Apr 2023 Construction Complete: Sep 2024 Equipment Installation Complete: Sep 2024 Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	7.700	-	-	-							
C. Equipment Installation Cost	-	1.300	-	-	-							
D. Contractor Support Cost	-	0.750	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	4.000	0.250	-	-	-	Related Projects						
Total Project Cost	4.000	16.000	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$16.000 million supports modernization upgrades to the Trinitrobenzene (TATB) manufacturing facility at Holston Army Ammunition Plant. TATB is utilized in PBXN-9602 and LX-17 munitions. The facility was reactivated in 2010; these upgrades will provide for modern, state-of-the-art equipment and processes and allow an increase in annual production. Additional \$16.000 million included in FY 2023 supplemental appropriations.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: RDX Wastewater Infrastructure Design, Upgrades, and Construction						Project Number: 5233978		Project Category:				
End Item Supported Model: Research Develop Expl (RDX), High Melt Expl (HMX), Insensitive Mun Expl (IMX)						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Holston Army Ammunition Plant Facility Location: Kingsport, Tennessee Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	10.050	-	-	-	<div>Principal Milestones<div>Month & Year</div><div>Concept Design Complete: Final Design Complete: Initial/Final Project Award: Apr 2023 / May 2023 Construction Complete: Aug 2024 Equipment Installation Complete: Aug 2024 Prove Out Begins: Sep 2024 Prove Out Complete: Sep 2024</div></div>						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	0.750	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	1.200	-	-	-							
Total Project Cost	-	12.000	-	-	-	Related Projects						
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$12.000 million support RDX wastewater infrastructure design, upgrades, and construction at Holston Army Ammunition Plant. This project reduces environmental noncompliance risks and issues and enables sustainable production of RDX explosives. This project supports production lines for explosive based munitions being supplied to the Ukraine; e.g., Javelin, Stinger, TOW, Artillery, and Bombs. Additional \$12.000 million included in FY 2023 supplemental appropriations.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Upgrade Laundry Facility Upgrades and Construction						Project Number: 5233979			Project Category:			
End Item Supported Model: Research Develop Expl (RDX), High Melt Expl (HMX), Insensitive Mun Expl (IMX)						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Holston Army Ammunition Plant Facility Location: Kingsport, Tennessee Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	3.497	-	-	-	Principal Milestones Concept Design Complete: Final Design Complete: Initial/Final Project Award: Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:			Month & Year Mar 2023			
B. Equipment Cost	-	2.000	-	-	-							
C. Equipment Installation Cost	-	0.850	-	-	-							
D. Contractor Support Cost	-	0.403	-	-	-							
E. Corps of Engineers Support Cost	-	0.750	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	0.500	-	-	-	Related Projects						
Total Project Cost	-	8.000	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$8.000 million support construction of a new laundry facility to handle large volume of contaminated PPE and address increased capacity expansion efforts at Holston Army Ammunition Plant. This will replace the legacy facility which is approaching end of service life. This new facility will be capable of meeting current and future requirements. Additional \$8.000 million included in FY 2023 supplemental appropriations.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities	
Project Title: Barricade Repairs, Replacements, and Infrastructure Upgrades						Project Number: 5235177	
End Item Supported Model: Research Develop Expl (RDX), High Melt Expl (HMX), Insensitive Mun Expl (IMX)						Project Category:	
						Annual Capacity Before / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Holston Army Ammunition Plant	
A. Construction Cost	-	26.900	-	-	-	Facility Location: Kingsport, Tennessee	
B. Equipment Cost	-	-	-	-	-	Facility Type (GOGO, GOCO, COCO): GOCO	
C. Equipment Installation Cost	-	-	-	-	-	Principal Milestones	
D. Contractor Support Cost	-	0.500	-	-	-	Month & Year	
E. Corps of Engineers Support Cost	-	2.100	-	-	-	Concept Design Complete:	
F. Other In-House Support Cost	-	-	-	-	-	Final Design Complete:	
G. Total Facility Project Cost	-	-	-	-	-	Initial/Final Project Award: Mar 2023	
H. Other Costs	-	0.500	-	-	-	Construction Complete: Sep 2024	
Total Project Cost	-	30.000	-	-	-	Equipment Installation Complete: Sep 2024	
						Prove Out Begins:	
						Prove Out Complete:	
						Related Projects	
						Project Number	Title
						FY & Appn	Value (\$ M)
						Facing	Start Date
						Compl Date	
Narrative Explanation:							
Procurement dollars in the amount of \$30.000 million support construction of barricade replacement and infrastructure repairs at Holston Army Ammunition Plant. This project reduces risk of existing barricade failures and related impacts to production. Many of the barricades were originally constructed of wood, which requires repair and or replacement. This project is necessary to maintain production continuity and overall safety at the plant.							
Additional \$30.000 million included in FY 2023 supplemental appropriations.							

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Road Improvements and Railroad Crossing						Project Number: 5233980						
End Item Supported Model: Research Develop Expl (RDX), High Melt Expl (HMX), Insensitive Mun Expl (IMX)						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Holston Army Ammunition Plant Facility Location: Kingsport, Tennessee Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	6.750	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2023 Construction Complete: Sep 2024 Equipment Installation Complete: Sep 2024 Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	0.250	-	-	-							
E. Corps of Engineers Support Cost	-	0.750	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	0.250	-	-	-							
Total Project Cost	-	8.000	-	-	-	Related Projects						
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

Procurement dollars in the amount of \$8.000 million support improvements to roads and other infrastructure at Holston Army Ammunition Plant. This is necessary to ensure safe and reliable transportation of incoming raw materials and internal movements of product by truck, reducing the risk of potential safety and environmental hazards.

Additional \$8.000 million included in FY 2023 supplemental appropriations.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities															
Project Title: Future Artillery Complex						Project Number: 5XX5030															
						Project Category:															
End Item Supported Model: Artillery and Mortars						Annual Capacity Before / After (1-8-5): /															
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Iowa Army Ammunition Plant Facility Location: Middletown, Iowa Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	-	50.000	526.532	-	526.532	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Sep 2024 Initial/Final Project Award: Sep 2019 / Jun 2024 Construction Complete: Oct 2027 Equipment Installation Complete: Oct 2027 Prove Out Begins: Nov 2027 Prove Out Complete: Jul 2028															
B. Equipment Cost	-	-	-	-	-																
C. Equipment Installation Cost	-	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	-	-	3.298	-	3.298	Related Projects <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Project Number</th> <th>Title</th> <th>FY & Appn</th> <th>Value (\$ M)</th> <th>Facing</th> <th>Start Date</th> <th>Compl Date</th> </tr> <tr> <td colspan="7" style="height: 20px;"></td> </tr> </table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date			Compl Date													
Total Project Cost	-	50.000	529.830	-	529.830																
Narrative Explanation: FY 2024 Base procurement dollars in the amount of \$529.830 million supports construction of a modern artillery production facility at Iowa Army Ammunition Plant. The existing melt pour operation is a WWII era facility designed for mass production quantities and does not meet modern requirements. The existing facility is limited by process constraints resulting in low rates of production not meeting current demand and surge. The existing process is laborious and time consuming, with limited process controls and antiquated equipment and infrastructure. This modernization project will relocate and reduce the overall footprint of the artillery melt pour process and mortar line production operations. This modernization effort improves the load, assembly and pack-out process and reduces the cost of munitions. This new artillery production facility will achieve efficient manufacturing operations, automation for operator safety improvements, graceful degradation by separation of facilities explosive arcs and duplicate production lines, improve quality control, improve on energy efficiencies and allow for production of next generation artillery all while being capable of scaling capacity for both peace and war production requirements. This project supports artillery (155mm M795, XM1113, and M1128) and mortar (120mm, 81mm, and 60mm) production programs. Additional \$50.000 million included in FY 2023 supplemental appropriations.																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Building 1 - 11 Inert Storage						Project Number: 5225126						
End Item Supported Model: 40MM						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Iowa Army Ammunition Plant Facility Location: Middletown, Iowa Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	6.400	-	-	-	-	<div>Principal Milestones<div>Month & Year</div><div>Concept Design Complete: Final Design Complete: Initial/Final Project Award: Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:</div><div>Apr 2023 Jul 2022 / Jun 2023 Jun 2024</div></div>						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-							
Total Project Cost	6.400	-	-	-	-	Related Projects						
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$6.400 million supports construction of an inert storage facility in Building 1-11 at Iowa Army Ammunition Plant. Effort will design, procure and construct a pre-fabricated metal structure. The new inert storage facility will store material safely while maintaining product quality for both short and moderate durations of production time. Centralizing storage capabilities will reduce costs and support strategy to reduce the Plant's footprint reduction.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Primary Water Pump Station						Project Number: 5225240						
End Item Supported Model: 40MM, 120MM, Artillery HE, Mortar 60MM, 120MM						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Iowa Army Ammunition Plant Facility Location: Middletown, Iowa Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	2.471	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Apr 2023 Initial/Final Project Award: Jul 2022 / Jun 2023 Construction Complete: Feb 2024 Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	0.300	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-							
Total Project Cost	2.771	-	-	-	-	Related Projects						
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:
Procurement dollars in the amount of \$2.771 million supports construction of a new primary water pump station at Iowa Army Ammunition Plant. This project supports the continuity of the entire facility water supply system to include domestic water as well as fire suppression systems in all production and administrative areas. Effort will acquire and replace the existing primary pump components at gate-1 pump house relocate and construct new facility to house the equipment. The existing pump house system is over 40 years old and contains antiquated pumps and motors. Replacement of existing pumps and controls will ensure adequate water supplies, decrease operating cost and improve communication between the pump system and water supply towers.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Line 3A Sustainment						Project Number: 5225241						
End Item Supported Model: M795						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Iowa Army Ammunition Plant Facility Location: Middletown, Iowa Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	3.000	-	-	-	-	<div>Principal Milestones<div>Month & Year</div><div>Concept Design Complete:</div><div>Final Design Complete:</div><div>Initial/Final Project Award:Aug 2022</div><div>Construction Complete:Aug 2023</div><div>Equipment Installation Complete:</div><div>Prove Out Begins:</div><div>Prove Out Complete:</div></div>						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-							
Total Project Cost	3.000	-	-	-	-	Related Projects						
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$3.000 million supports repairs and upgrades to Line 3A production operations at Iowa Army Ammunition Plant. Line 3A is provides melt pour operations of artillery and mortar munitions. The line has been in operations for over twenty-five years and requires upgrades to prevent production interruptions. This effort will maintain production continuity until the new line is constructed and commissioned.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10					P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities							
Project Title: Open Burning Mitigation Technology					Project Number: 5225302		Project Category:					
End Item Supported Model: Tank, Artillery, C4						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Iowa Army Ammunition Plant Facility Location: Middletown, Iowa Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Feb 2024 Initial/Final Project Award: Feb 2023 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	5.000	-	-	-	-	Related Projects						
Total Project Cost	5.000	-	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

Procurement dollars in the amount of \$5.000 million support a study to review and evaluate Commercial off the Shelf (COTS) / Non-Developmental Items (NDIs) alternatives for thermal and non-thermal treatment solutions to reduce and/or eliminate open burning of Material Potentially Presenting and Explosive Hazard (MPPEH) and Material Documented as an Explosive Hazard (MDEH) at Iowa Army Ammunition Plant. The overall intent is to utilize technologies that already exist or have been studied by other government agencies. In addition, this project brings OB/OD operations into compliance with federal regulations in regards to operations or requirements of OB/OD.

FY 2022 funding was part of a congressional add.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Asbestos Abatement						Project Number: 5225318						
End Item Supported Model: 40mm, Tank, Artillery						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Iowa Army Ammunition Plant Facility Location: Middletown, Iowa Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	8.000	-	-	-	-	<div>Principal Milestones<div>Month & Year</div><div>Concept Design Complete: Final Design Complete: Initial/Final Project Award: Feb 2023 Construction Complete: Oct 2024 Equipment Installation Complete: Prove Out Begins: Prove Out Complete:</div></div>						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-							
Total Project Cost	8.000	-	-	-	-	Related Projects						
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

Procurement dollars in the amount of \$8.000 million supports abatement and removal of ramps containing asbestos and design and construction of new ramps for Iowa Army Ammunition Plant. This effort will abate transite Asbestos Containing Materials (ACM) in production facilities on Lines 1, 2, 3, 3A and general area facilities. Asbestos in the identified areas are becoming brittle and friable which is a safety and environmental hazard.

Funding supported by a Congressional Add.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: New Tool & Die Facility						Project Number: 5235319						
End Item Supported Model: 40mm, Tank, Artillery, C4						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Iowa Army Ammunition Plant Facility Location: Middletown, Iowa Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	12.500	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Jun 2023 Construction Complete: Jun 2024 Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	3.500	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	0.500	-	-	-							
E. Corps of Engineers Support Cost	-	2.800	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	0.700	-	-	-							
Total Project Cost	-	20.000	-	-	-	Related Projects						
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:
Procurement dollars in the amount of \$20.000 million supports the design and build for the Tool and Die Facility at Iowa Army Ammunition Plant. The current facility is located within an explosive arc, compromising worker safety and regulatory compliance. A new location for the tool and die facility outside of the explosive arc would improve site resiliency and safety.

Additional \$20.000 million included in FY 2023 supplemental appropriations.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Roadway Improvements						Project Number: 5235320						
End Item Supported Model: 40mm, Tank, Artillery, C4						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Iowa Army Ammunition Plant Facility Location: Middletown, Iowa Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	13.750	-	-	-	<div>Principal Milestones<div>Month & Year</div><div>Concept Design Complete: Final Design Complete: Initial/Final Project Award: Jun 2023 Construction Complete: Aug 2025 Equipment Installation Complete: Prove Out Begins: Prove Out Complete:</div></div>						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	0.300	-	-	-							
E. Corps of Engineers Support Cost	-	0.950	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-							
Total Project Cost	-	15.000	-	-	-	Related Projects						
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

Procurement dollars in the amount of \$15.000 million supports roadway infrastructure improvements at Iowa Army Ammunition Plant (AAP). Many of these roads were constructed 70 years ago as part of the county road network. Over time there has been repairs to the roads, but not a total repaving effort. These roads are in poor condition and are a safety hazard for drivers. The objective is to ensure safe access around the facility by both employees' personal vehicles and plant operational vehicles, including explosive laden trucks.

Additional \$15.000 million included in FY 2023 supplemental appropriations.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023								
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities								
Project Title: Energetics Facility						Project Number: 5235321								
End Item Supported Model: Propellant Charges for Mortars and Artillery						Project Category:								
						Annual Capacity Before / After (1-8-5): /								
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Iowa Army Ammunition Plant Facility Location: Middletown, Iowa Facility Type (GOGO, GOCO, COCO): GOCO								
A. Construction Cost	-	42.500	-	-	-	<div>Principal Milestones<div>Month & Year</div><div>Concept Design Complete:Jul 2024</div><div>Final Design Complete:Mar 2023 / Jul 2023</div><div>Initial/Final Project Award:Mar 2026</div><div>Construction Complete:Mar 2026</div><div>Equipment Installation Complete:Mar 2026</div><div>Prove Out Begins:Apr 2026</div><div>Prove Out Complete:Dec 2026</div></div>								
B. Equipment Cost	-	22.000	-	-	-									
C. Equipment Installation Cost	-	6.000	-	-	-									
D. Contractor Support Cost	-	-	-	-	-									
E. Corps of Engineers Support Cost	-	-	-	-	-									
F. Other In-House Support Cost	-	-	-	-	-									
G. Total Facility Project Cost	-	-	-	-	-									
H. Other Costs	-	4.500	-	-	-									
Total Project Cost	-	75.000	-	-	-	<div>Related Projects</div> <table><thead><tr><th>Project Number</th><th>Title</th><th>FY & Appn</th><th>Value (\$ M)</th><th>Facing</th><th>Start Date</th><th>Compl Date</th></tr></thead><tbody></tbody></table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date								
<div>Narrative Explanation:</div> <p>Procurement dollars in the amount of \$75.000 million supports design and construction of an Energetics Facility at Iowa Army Ammunition Plant. Modernized energetics facility centralizes production lines at IAAAP in order to increase efficiencies and cost savings. It will also provide the opportunity to improve the assembly lines by incorporating automation to increase production, quality, and safety while decreasing the risk of injury while providing costs savings.</p> <p>Additional \$75.000 million included in FY 2023 supplemental appropriations.</p>														

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Direct Fire Production Facility Design						Project Number: 5245322						
End Item Supported Model: Tank Ammunition						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Iowa Army Ammunition Plant Facility Location: Middletown, Iowa Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Aug 2023 Final Design Complete: Sep 2025 Initial/Final Project Award: Mar 2024 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	26.730	-	26.730	Related Projects						
Total Project Cost	-	-	26.730	-	26.730							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: FY 2024 Base procurement dollars in the amount of \$26.730 million supports the design of a new, state-of-the-art Direct Fire Production Facility at Iowa Army Ammunition Plant. The new facility will gain more efficiencies, expand capacity, and will be flexible to support future requirements. The design charrette is currently being executed and will be completed by end of month August 2023.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Small Caliber Modernization, Next Generation Squad Weapon Ammunition facility						Project Number: 5XX3356			Project Category:			
End Item Supported Model: 6.8mm						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Lake City Army Ammunition Plant Facility Location: Independence, Missouri Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	222.010	32.700	-	32.700	Principal Milestones Concept Design Complete: Final Design Complete: Initial/Final Project Award: Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:			Month & Year Jun 2023 Dec 2017 / Jul 2024 Dec 2026 Dec 2026 Jan 2027 Sep 2027			
B. Equipment Cost	-	76.040	24.000	-	24.000							
C. Equipment Installation Cost	-	8.000	5.000	-	5.000							
D. Contractor Support Cost	-	2.000	1.800	-	1.800							
E. Corps of Engineers Support Cost	-	0.500	0.500	-	0.500							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	30.000	5.000	1.000	-	1.000	Related Projects						
Total Project Cost	30.000	313.550	65.000	-	65.000							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: FY 2024 Base procurement dollars in the amount of \$65.000 million supports purchase of production equipment for the Next Generation Squad Weapon (NGSW) Ammunition facility at Lake City Army Ammunition Plant (AAP). Effort includes the ammunition production equipment purchase and installation as well as design, validation and prove-out of cartridge manufacturing equipment to support initial production volumes. The equipment will support production capacity to achieve the Total Army Munitions Requirement (TAMR) for training, combat, and war reserve. The new 6.8mm facility will provide a state-of-the-art safe and environmental manufacturing capability to Lake City AAP. The equipping phases will ensure the 6.8mm facility utilizes modern manufacturing systems and equipment for producing cutting edge small caliber ammunition products and will include systems capable of manufacturing NGSW projectiles, cartridge cases, and finished cartridges. Production disciplines may include metal and polymer parts manufacturing as well as energetic operations for charging, priming, and loading ammunition. Additionally, classified manufacturing, charging, priming, and loading capability will also be established. Cartridge packing areas, process quality controls including testing laboratories, maintenance operations, and general use administrative area including shipping and receiving of raw materials and finished products to support large-scale production to meet Army requirements will be included. The manufacturing processes will have a significant level of automation with advanced safety and environmental sustainable material handling operations ensuring graceful degradation, operational resilience, and isolation of mass energetics from people. The production building and process support systems will be designed to accommodate best practice manufacturing methodologies, processes, and equipment that provide flexible, maintainable, and sustainable operations to ensure manufacturing readiness to meet future requirements and technology advancements. The Next Generation Squad Weapon (NGSW) is a Middle Tier of Acquisition program that has transitioned from rapid prototyping to rapid fielding of a new rifle, automatic rifle, and ammunition which provides increased lethality. The Next Generation Squad Weapon - Ammunition (NGSW-A) program will consist of a suite of 6.8mm training												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army			Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10		P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities	
Project Title: Small Caliber Modernization, Next Generation Squad Weapon Ammunition facility		Project Number: 5XX3356	Project Category:
End Item Supported Model: 6.8mm			Annual Capacity Before / After (1-8-5): /
<p>and combat cartridges. Selection of Lake City AAP as the NGSW-A production facility will promote long-term security of supply for 6.8mm ammunition by integrating the loading, assembly, and pack out processes with the production of major ammunition subcomponents, such as cartridge case manufacturing, and projectile forming. Joint Program Executive Office (JPEO) Armaments and Ammunition is the agency lead for the development of this requirement to provide a new squad weapon ammunition round to increase Soldier lethality. Lake City AAP was identified as the production site for the NGSW round due to its existing ammunition production support infrastructure and its ability to retain highly qualified, expert small caliber ammunition manufacturing personnel. There is currently no high capacity 6.8mm ammunition manufacturing facilities in the National Technology Industrial Base (NTIB).</p> <p>The NGSW-A program is a key Army Modernization Priority and supports the Soldier Lethality Cross Functional Team (CFT) objectives. This program will deliver light weight, performance enhanced small-caliber ammunition to Warfighters for improved mission readiness and assured overmatch capability. At completion, Lake City AAP will provide high-volume capability within the organic industrial base to produce 6.8mm ammunition. Lake City AAP will have state-of-the-art manufacturing equipment, processes, facilities, and infrastructure to achieve the Army's annual production requirement, with no impact to current production capacity for legacy small caliber ammunition under a surge scenario.</p>			

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Next Generation Squad Weapon Ammunition facility, Infrastructure Mod						Project Number: 5223359						
						Project Category:						
End Item Supported Model: 6.8mm						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Lake City Army Ammunition Plant Facility Location: Independence, Missouri Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	8.657	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Apr 2022 / Jun 2023 Construction Complete: Sep 2023 Equipment Installation Complete: Sep 2023 Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	7.500	-	-	-	-							
C. Equipment Installation Cost	2.587	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	6.256	-	-	-	-	Related Projects						
Total Project Cost	25.000	-	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:
Procurement dollars in the amount of \$25.000 million supports infrastructure improvements and modernization to existing facilities to support the Next Generation Squad Weapon (NGSW) Ammunition facility at Lake City Army Ammunition Plant (AAP). The Plant will be capable of producing three new, 6.8mm NGSW ammunition rounds that will provide munitions overmatch for the joint warfighter. Effort includes site preparation to existing buildings for purchase and storage of production equipment, material handling and ancillary support efforts for the new NGSW facility. Joint Program Executive Office (JPEO) Armaments and Ammunition is the agency lead for the development of a new squad weapon ammunition round to increase soldier lethality. Lake City AAP was identified as the production site for the NGSW round due to its existing ammunition production support infrastructure and its ability to retain highly qualified, expert small caliber ammunition manufacturing personnel. The project objective is to meet low rate production of the NGSW round by FY 2025.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Mix Houses and Neutralization Design						Project Number: 5225231						
End Item Supported Model: Primers for all calibers						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Lake City Army Ammunition Plant Facility Location: Independence, Missouri Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Apr 2023 Final Design Complete: Jun 2024 Initial/Final Project Award: Mar 2023 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	14.000	-	-	-	-	Related Projects						
Total Project Cost	14.000	-	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:
Procurement dollars in the amount of \$14.000 million to support design of the Mix Houses and Neutralization at Lake City Army Ammunition Plant.??The mix houses contain the production processes in which all primer constituents are combined in a we-blended process before being transported to building 35 (primer manufacturing building) for final charging assembly. The neutralization process is an integral part of the operation from a life safety and process perspective. The processes in building 90 (neutralization) support the movement of energetic materials form washdown (cleaning) operations in the primer mix houses or aborted primer mix production batches to be safety conveyed, suspended in water, through a moat system from the production mixing process building to the neutralization building. The moat channels direct the flow of energetic wastewater into kill tanks, where process chemicals are added to neutralize and ensure the wastewater is safe for conveyance to the wastewater facility. The effort will provide a design to modernize the primer mix and neutralization processes through automation and material handling to improve worker safety and process efficiency.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities															
Project Title: Automated Contaminated Waste Plant						Project Number: 5245233															
End Item Supported Model: 5.56mm, 7.62mm, and .50 Cal						Project Category:															
						Annual Capacity Before / After (1-8-5): /															
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Lake City Army Ammunition Plant Facility Location: Independence, Missouri Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	-	-	7.675	-	7.675	Principal Milestones <div style="display: flex; justify-content: space-between;"> <div> Concept Design Complete: Final Design Complete: Initial/Final Project Award: Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete: </div> <div> Apr 2023 Jun 2024 Jun 2021 / Aug 2024 Feb 2027 Dec 2024 Mar 2027 Apr 2027 </div> </div>															
B. Equipment Cost	-	-	1.500	-	1.500																
C. Equipment Installation Cost	-	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	0.575	-	0.575																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	-	-	0.250	-	0.250																
Total Project Cost	-	-	10.000	-	10.000	Related Projects <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="text-align: center;">Project Number</th> <th style="text-align: center;">Title</th> <th style="text-align: center;">FY & Appn</th> <th style="text-align: center;">Value (\$ M)</th> <th style="text-align: center;">Facing</th> <th style="text-align: center;">Start Date</th> <th style="text-align: center;">Compl Date</th> </tr> <tr> <td colspan="7" style="height: 20px;"></td> </tr> </table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date															
Narrative Explanation: FY 2024 Base procurement dollars in the amount of \$10.000 million supports construction of a new Automated Contaminated Waste Plant at Lake City Army Ammunition Plant. This new facility will provide the capability for decontamination of various plant production equipment and items which have been contaminated with propellant, explosives, and pyrotechnic compounds. The new facility will provide liquid (wet-kill) decontamination bays as well as a decontamination verification car-bottom oven. The facility will also include necessary waste collection, treatment, and neutralization provisions. In addition, this project will include in-process incoming and outgoing material staging areas, upgrades to Buildings 160 and 161, and equipment therein to the two buildings/operations and replacement of 160C Explosive Lift Station. This is a new start for FY 2024.																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10					P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities																
Project Title: Cyber Critical Infrastructure Risk Management (CIRM) Resiliency					Project Number: 5225169		Project Category:														
End Item Supported Model: 5.56mm, 7.62mm, and .50 Cal						Annual Capacity Before / After (1-8-5): /															
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Lake City Army Ammunition Plant Facility Location: Independence, Missouri Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	-	-	-	-	-	<div>Principal Milestones<div>Month & Year</div></div> <div>Concept Design Complete:</div> <div>Final Design Complete:</div> <div>Initial/Final Project Award:Dec 2022 / Apr 2023</div> <div>Construction Complete:</div> <div>Equipment Installation Complete:May 2025</div> <div>Prove Out Begins:Jun 2025</div> <div>Prove Out Complete:Jul 2025</div>															
B. Equipment Cost	5.000	-	-	-	-																
C. Equipment Installation Cost	1.000	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	-	-	-	-	-																
Total Project Cost	6.000	-	-	-	-	<div>Related Projects</div> <table><tr><th>Project Number</th><th>Title</th><th>FY & Appn</th><th>Value (\$ M)</th><th>Facing</th><th>Start Date</th><th>Compl Date</th></tr><tr><td colspan="7"></td></tr></table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date															
<div>Narrative Explanation:</div> <p>Procurement dollars in the amount of \$6.000 million supports Cyber Critical Infrastructure Risk Management (CIRM) Resiliency efforts at Lake City Army Ammunition Plant. Effort supports cybersecurity and 889 compliance improvements. Efforts will address replacement of legacy technologies or put in place new technologies to improve the cybersecurity ecosystem.</p> <p>Funding supported by \$6.000 million Congressional Add.</p>																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities	
Project Title: Building 1 Roof Replacement						Project Number: 5225234	
End Item Supported Model: 5.56mm						Project Category:	
						Annual Capacity Before / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Lake City Army Ammunition Plant	
A. Construction Cost	4.700	-	-	-	-	Facility Location: Independence, Missouri	
B. Equipment Cost	-	-	-	-	-	Facility Type (GOGO, GOCO, COCO): GOCO	
C. Equipment Installation Cost	-	-	-	-	-	Principal Milestones	
D. Contractor Support Cost	-	-	-	-	-	Month & Year	
E. Corps of Engineers Support Cost	-	-	-	-	-	Concept Design Complete:	
F. Other In-House Support Cost	-	-	-	-	-	Final Design Complete:	
G. Total Facility Project Cost	-	-	-	-	-	Initial/Final Project Award: Apr 2023	
H. Other Costs	-	-	-	-	-	Construction Complete: Jul 2025	
Total Project Cost	4.700	-	-	-	-	Equipment Installation Complete:	
						Prove Out Begins:	
						Prove Out Complete:	
						Related Projects	
						Project Number	Title
						FY & Appn	Value (\$ M)
						Facing	Start Date
						Compl Date	
Narrative Explanation:							
Procurement dollars in the amount of \$4.700 million supports replacement of failing roofs at Lake City Army Ammunition Plant. This will include replacement of remining Built-Up Roofing (BUR) and associated structures including drains and structural decking at Building 1 to prevent water leakage into the production area, preventing employee slips or falls, and to protect production equipment.							
Funding supported by a Congressional Add.							

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities																	
Project Title: Chemical Grind Facility				Project Number: 5XX3140		Project Category:															
End Item Supported Model:						Annual Capacity Before / After (1-8-5): /															
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Radford Army Ammunition Plant Facility Location: Radford, Virginia Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	43.215	50.000	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Feb 2021 Initial/Final Project Award: Nov 2022 / Aug 2023 Construction Complete: Feb 2025 Equipment Installation Complete: May 2025 Prove Out Begins: Jul 2025 Prove Out Complete: Nov 2025															
B. Equipment Cost	12.415	-	-	-	-																
C. Equipment Installation Cost	4.250	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	3.250	-	-	-	-	Related Projects <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="width: 10%;">Project Number</th> <th style="width: 30%;">Title</th> <th style="width: 15%;">FY & Appn</th> <th style="width: 10%;">Value (\$ M)</th> <th style="width: 10%;">Facing</th> <th style="width: 10%;">Start Date</th> <th style="width: 15%;">Compl Date</th> </tr> <tr> <td colspan="7" style="height: 20px;"> </td> </tr> </table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date			Compl Date													
Total Project Cost	63.130	50.000	-	-	-																
Narrative Explanation: <p>Procurement dollars in the amount of \$50.000 million supports the construction of a chemical grind facility at Radford Army Ammunition Plant. The current Chemical Grind facility, which is used to grind, sift, sort, and weigh out chemicals accurately for use in propellant production, has been in service since the plant was built in the 1940s and has exceeded its service life. The entire facility is in poor condition. Safety, health, and environmental regulations have changed significantly since the original date of construction resulting in the need for improvement to these operations to bring them fully into compliance with current regulations.</p> <p>The new facility will be located in an area of the plant outside of the 100-year floodplain and include bulk material storage in the warehouse portion of the facility instead of at a separate location over a mile away like the current facility. It will be constructed of durable building materials capable of providing a minimum of 50 years of service life. It will also comply with all current safety, health, and environmental regulations to minimize operator exposure to toxic chemicals and potential releases of these chemicals to the environment.</p> <p>Additional \$50.000 million included in FY 2023 supplemental appropriations.</p>																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities															
Project Title: Workplace Safety Upgrades						Project Number: 5XX3753															
						Project Category:															
End Item Supported Model: Propellants for Large, Medium, Small Cal, Rockets Munitions						Annual Capacity Before / After (1-8-5): /															
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Radford Army Ammunition Plant Facility Location: Radford, Virginia Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	9.000	37.000	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2023 Construction Complete: Jun 2026 Equipment Installation Complete: Prove Out Begins: Prove Out Complete:															
B. Equipment Cost	-	-	-	-	-																
C. Equipment Installation Cost	-	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	-	-	-	-	-																
Total Project Cost	9.000	37.000	-	-	-	Related Projects <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="text-align: center;">Project Number</th> <th style="text-align: center;">Title</th> <th style="text-align: center;">FY & Appn</th> <th style="text-align: center;">Value (\$ M)</th> <th style="text-align: center;">Facing</th> <th style="text-align: center;">Start Date</th> <th style="text-align: center;">Compl Date</th> </tr> <tr> <td colspan="7" style="height: 40px;"></td> </tr> </table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date															
Narrative Explanation: Procurement dollars in the amount of \$37.000 million support modernization upgrades to improve safety measures and reduce risk of injury to personnel at Radford Army Ammunition Plant (AAP). This project will address major deficiencies in several production areas across numerous Radford AAP operations that will provide for a safer manufacturing environment for the entire plant. Efforts include replacement or repair of aging and deteriorated equipment and ventilation as well as process enhancement measures to reduce safety risk. Additional \$37.000 million included in FY 2023 supplemental appropriations.																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities								
Project Title: Alternate Nitrate Ester Facility (NG-3)				Project Number: 5225090		Project Category:						
End Item Supported Model: multi-base propellants for medium, large caliber, rocket grain munitions				Annual Capacity Before / After (1-8-5): /								
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Radford Army Ammunition Plant Facility Location: Radford, Virginia Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	2.000	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Mar 2026 Initial/Final Project Award: Jun 2023 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	26.200	-	-	-	-	Related Projects						
Total Project Cost	28.200	-	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$28.200 million supports design of a new nitrate ester facility at Radford Army Ammunition Plant. Nitrate esters including nitroglycerin (NG) are critical additives in the production of large caliber propellants and rocket grains. The existing facility was built in the 1960s and was last modernized in the mid-1980s; it has far surpassed its operational life. Additionally, the NG facilities have experienced three catastrophic incidents in the last 17 years. The new facility when constructed will significantly increase safety and product quality by utilizing totally remote and automated processes, reducing operator exposure to chemicals and energetics.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Solventless/Rocket Area, Prod Operations						Project Number: 5225141		Project Category:				
End Item Supported Model: Propellants for Large, Medium, and Small Cal Munitions						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Radford Army Ammunition Plant Facility Location: Radford, Virginia Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	15.000	-	-	-	-	<div>Principal Milestones<div>Month & Year</div></div> <div>Concept Design Complete: Final Design Complete: Initial/Final Project Award: Dec 2019 / Jun 2023 Construction Complete: May 2025 Equipment Installation Complete: Prove Out Begins: Prove Out Complete:</div>						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-							
Total Project Cost	15.000	-	-	-	-	Related Projects						
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$15.000 million supports second phase to modernize and sustain production operations of solventless propellant and the rocket manufacturing facility at Radford Army Ammunition Plant. Effort will stabilize the solventless areas, rocket and roll powder, to maintain production continuity. This effort includes replacement of critical equipment and identification assessment of corrective maintenance actions. Additional funds support critical sustainment efforts.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities								
Project Title: Solvent Propellant Facility Sustainment, Ph 3				Project Number: 5XX5145		Project Category:						
End Item Supported Model: Propellants for Large, Medium, and Small Cal Munitions						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Radford Army Ammunition Plant Facility Location: Radford, Virginia Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	5.900	-	3.000	-	3.000	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2023 / Mar 2024 Construction Complete: Mar 2025 Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	2.400	-	1.000	-	1.000	Related Projects						
Total Project Cost	8.300	-	4.000	-	4.000	Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: FY 2024 Base procurement dollars in the amount of \$4.000 million supports modernization and sustainment of the solvent propellant facility at Radford Army Ammunition Plant. The facility was constructed during the 1940s and has operated beyond its useful life. This effort is the third phase to replace and repair critical production equipment and infrastructure and provide assessment of future corrective actions. Effort is required to ensure production continuity of solvent propellants until a new, modernized facility is designed and constructed.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities															
Project Title: NAC/SAC Process Improvements						Project Number: 5233120															
End Item Supported Model: Propellants for Large, Medium, and Small Cal Munitions						Project Category:															
						Annual Capacity Before / After (1-8-5): /															
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Radford Army Ammunition Plant Facility Location: Radford, Virginia Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	-	23.500	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Sep 2023 Initial/Final Project Award: Sep 2022 / Aug 2023 Construction Complete: Sep 2025 Equipment Installation Complete: Sep 2026 Prove Out Begins: Oct 2025 Prove Out Complete: Oct 2026															
B. Equipment Cost	-	-	-	-	-																
C. Equipment Installation Cost	-	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	-	-	-	-	-																
Total Project Cost	-	23.500	-	-	-	Related Projects <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="text-align: center;">Project Number</th> <th style="text-align: center;">Title</th> <th style="text-align: center;">FY & Appn</th> <th style="text-align: center;">Value (\$ M)</th> <th style="text-align: center;">Facing</th> <th style="text-align: center;">Start Date</th> <th style="text-align: center;">Compl Date</th> </tr> <tr> <td colspan="7" style="height: 20px;"></td> </tr> </table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date															
Narrative Explanation: Procurement dollars in the amount of \$23.500 million supports various process improvements to the nitric acid concentrator and sulfuric acid concentrator (NAC/SAC) at Radford Army Ammunition Plant. This facilities and maintenance effort includes modernization design, procurement and installation of various process equipment. Effort will enhance the process operations of the NAC/SAC facility to support Radford AAP's annual NC production capacity of 24-28M pounds. Additional \$23.500 million included in FY 2023 supplemental appropriations.																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023	
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities	
Project Title: Steam Distribution System Modernization Phase 1						Project Number: 5233845	
End Item Supported Model:						Project Category:	
						Annual Capacity Before / After (1-8-5): /	
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Radford Army Ammunition Plant Facility Location: Radford, Virginia Facility Type (GOGO, GOCO, COCO): GOCO	
A. Construction Cost	-	33.000	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Dec 2020 / Aug 2023 Construction Complete: Mar 2025 Equipment Installation Complete: Prove Out Begins: Prove Out Complete:	
B. Equipment Cost	-	-	-	-	-		
C. Equipment Installation Cost	-	-	-	-	-		
D. Contractor Support Cost	-	-	-	-	-		
E. Corps of Engineers Support Cost	-	3.750	-	-	-		
F. Other In-House Support Cost	-	-	-	-	-		
G. Total Facility Project Cost	-	-	-	-	-		
H. Other Costs	-	0.750	-	-	-		
Total Project Cost	-	37.500	-	-	-	Related Projects	
						Project Number	Title
						FY & Appn	Value (\$ M)
						Facing	Start Date
						Compl Date	
Narrative Explanation: Procurement dollars in the amount of \$37.500 million supports upgrade and replace the steam distribution system that is critical to propellant production at Radford Army Ammunition Plant (AAP). Without the steam systems, the production at Radford AAP could cease. This Phase 1 effort will replace ~10% of 58 miles of steam distribution system to include piping, valves, traps, and insulation. Additional \$37.500 million included in FY 2023 supplemental appropriations.							

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities															
Project Title: EvenSpeed Roll Mill Upgrade						Project Number: 5233846															
End Item Supported Model:						Project Category:															
						Annual Capacity Before / After (1-8-5): /															
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Radford Army Ammunition Plant Facility Location: Radford, Virginia Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	-	28.000	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2023 / Sep 2023 Construction Complete: Mar 2026 Equipment Installation Complete: Prove Out Begins: Apr 2026 Prove Out Complete: Sep 2026															
B. Equipment Cost	-	-	-	-	-																
C. Equipment Installation Cost	-	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	-	-	-	-	-																
Total Project Cost	-	28.000	-	-	-	Related Projects <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="text-align: center;">Project Number</th> <th style="text-align: center;">Title</th> <th style="text-align: center;">FY & Appn</th> <th style="text-align: center;">Value (\$ M)</th> <th style="text-align: center;">Facing</th> <th style="text-align: center;">Start Date</th> <th style="text-align: center;">Compl Date</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date															
Narrative Explanation: Procurement dollars in the amount of \$28.000 million supports analysis, design, construct, and procure equipment to support the safe operations of the current process deemed one "the most dangerous" operation in Radford Army Ammunition Plant. This project will assess and provide automation upgrades to two areas of solventless rocket propellant grain production in Radford Army Ammunition Plant (RFAAP): the Evenspeed Roll Mill and Rocket Manufacturing area. The current roll mill process is one of the most dangerous operations in the facility. Improvements include automation and process optimization. The Rocket Manufacturing Upgrade intends to automate and provide production efficiencies for the Sawing, Dowel Rodding (Dowelling), and Coning operations in the Rocket Manufacturing area. Additional \$28.000 million included in FY 2023 supplemental appropriations.																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: NC Facility Technology, Hammer mill						Project Number: 5233847						
End Item Supported Model: Mortars and Artillery						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Radford Army Ammunition Plant Facility Location: Radford, Virginia Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	5.000	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2023 / May 2023 Construction Complete: May 2025 Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-	Related Projects						
Total Project Cost	-	5.000	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

Procurement dollars in the amount of \$5.000 million supports a new technology that will improve the quality of nitrocellulose fibers, needed for high performance nitrocellulose-based propellants at Radford Army Ammunition Plant. Technology supports production of mortars and artillery. This phase of the project will include design, procurement of long lead equipment and installation.

Additional \$5.000 million included in FY 2023 supplemental appropriations.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10					P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities																
Project Title: Bliss III Press & Furnace Upgrades					Project Number: 5223419		Project Category:														
End Item Supported Model: M1128, M1113						Annual Capacity Before / After (1-8-5): /															
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	-	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2022 Construction Complete: Equipment Installation Complete: Mar 2024 Prove Out Begins: Apr 2024 Prove Out Complete: May 2024															
B. Equipment Cost	2.100	-	-	-	-																
C. Equipment Installation Cost	0.500	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	0.150	-	-	-	-	Related Projects <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="text-align: center;">Project Number</th> <th style="text-align: center;">Title</th> <th style="text-align: center;">FY & Appn</th> <th style="text-align: center;">Value (\$ M)</th> <th style="text-align: center;">Facing</th> <th style="text-align: center;">Start Date</th> <th style="text-align: center;">Compl Date</th> </tr> <tr> <td colspan="7" style="height: 20px;"> </td> </tr> </table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date			Compl Date													
Total Project Cost	2.750	-	-	-	-																
Narrative Explanation: Procurement dollars in the amount of \$2.750 million supports modernization upgrades to the Bliss III Press and Furnace system at the Scranton Army Ammunition Plant. While the Bliss III Press and Furnace were rebuilt around FY 2007, there have been no significant upgrades to either Press since then. This effort will focus on providing a number of much needed upgrades to that equipment, including; replacing the descender, upgrading the Furnace end effector and some robot upgrades and replacement within the press system. Effort will allow the Bliss III Press and Furnace system to continue to manufacture quality metal parts well into the future.																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities																	
Project Title: Saw Cell Automation & Modernization				Project Number: 5223719		Project Category:															
End Item Supported Model: M1128, M1113						Annual Capacity Before / After (1-8-5): /															
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	-	-	-	-	-	<div>Principal Milestones<div>Month & Year</div></div> <div>Concept Design Complete:</div> <div>Final Design Complete:</div> <div>Initial/Final Project Award: Apr 2022</div> <div>Construction Complete:</div> <div>Equipment Installation Complete: Apr 2023</div> <div>Prove Out Begins: May 2023</div> <div>Prove Out Complete: Jun 2023</div>															
B. Equipment Cost	2.760	-	-	-	-																
C. Equipment Installation Cost	0.690	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	0.550	-	-	-	-																
Total Project Cost	4.000	-	-	-	-	<div>Related Projects</div> <table><tr><th>Project Number</th><th>Title</th><th>FY & Appn</th><th>Value (\$ M)</th><th>Facing</th><th>Start Date</th><th>Compl Date</th></tr><tr><td colspan="7"></td></tr></table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date															
<div>Narrative Explanation:</div> <p>Procurement dollars in the amount of \$4.000 million supports the modernization and automation of the Saw Cell at the Scranton Army Ammunition Plant. All steel entering the facility must be cut into appropriately sized billets to begin the production process. This effort will modernize and automate the second Saw Cell at the facility. This effort will increase production flexibility and improve worker safety.</p>																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Infrastructure & Equipment Efforts						Project Number: 5225150						
End Item Supported Model: 155MM munitions, artillery						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	1.150	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2023 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	0.800	-	-	-	-	Related Projects						
Total Project Cost	1.950	-	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:
Procurement dollars in the amount of \$1.950 million supports facilities maintenance, infrastructure, machinery, and equipment modernization efforts at Scranton Army Ammunition Plant. Effort will fund unscheduled maintenance, repair and modernization of production equipment and facilities that would prevent serious injury to personnel or effects to the environment.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities								
Project Title: Artillery Prod Line Mod				Project Number: 5225180		Project Category:						
End Item Supported Model: M1128, M1113						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Apr 2022 / Jul 2023 Construction Complete: Equipment Installation Complete: Mar 2024 Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	31.423	-	-	-	-							
C. Equipment Installation Cost	4.440	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-							
Total Project Cost	35.863	-	-	-	-	Related Projects						
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$35.863 million support purchase and installation of modern production equipment for metal parts production at the Scranton Army Ammunition Plant. This effort will primarily focus on increasing finish turning capacity, increasing ultrasonic testing capacity and adding welded nickel rotating band capability. Completion of this effort will add a full rate M1128 metal parts production capability at the facility as well as supporting the M1113. An upward adjustment notification was processed and approved.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10					P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities							
Project Title: Steam & Water Piping Mod Upgrades					Project Number: 5225181		Project Category:					
End Item Supported Model: M1128, M1113						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	0.500	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: May 2023 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-	Related Projects						
Total Project Cost	0.500	-	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$0.500 million supports modernization upgrades to process steam and water piping at the Scranton Army Ammunition Plant. Process steam and water is provided throughout the facility in a number of production processes. The existing infrastructure is failing and upgrades are required to ensure reliable supply and robust production process. This effort will replace leaking and deteriorated steam and water piping along with replacing or adding necessary valves throughout the facility.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities								
Project Title: A2 Forge Shop Shot Blast Replacement				Project Number: 5225182		Project Category:						
End Item Supported Model: M1128, M1113						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2023 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	0.760	-	-	-	-							
C. Equipment Installation Cost	0.190	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	0.050	-	-	-	-	Related Projects						
Total Project Cost	1.000	-	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$1.000 million supports modernization of the A2 Shot Blast System in the Forge Shop at the Scranton Army Ammunition Plant. This system is a critical step in manufacturing a metal part with an as forged cavity. The A2 Shot Blast System at the facility is approaching the end of its useful life and requires replacement or modernization that will be completed by this effort.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities								
Project Title: M795 Pangborn Shot Blast Replacement				Project Number: 5225183		Project Category:						
End Item Supported Model: 155mm munitions, Artillery						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2023 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	2.320	-	-	-	-							
C. Equipment Installation Cost	0.580	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	0.100	-	-	-	-	Related Projects						
Total Project Cost	3.000	-	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$3.000 million supports modernization of the Pangborn Shot Blast System at the Scranton Army Ammunition Plant. This system is a critical step in manufacturing a metal part with an as forged cavity. The Pangborn Shot Blast System at the facility is approaching the end of its useful life and requires replacement or modernization that will be completed by this effort.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10					P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities																
Project Title: XM1113/1210 Production Line					Project Number: 5225185		Project Category:														
End Item Supported Model: XM1113, XM1210						Annual Capacity Before / After (1-8-5): /															
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	9.000	-	-	-	-	<div>Principal Milestones<div>Month & Year</div><div>Concept Design Complete: Final Design Complete: Initial/Final Project Award: May 2024 Construction Complete: May 2026 Equipment Installation Complete: Nov 2026 Prove Out Begins: Prove Out Complete:</div></div>															
B. Equipment Cost	17.000	-	-	-	-																
C. Equipment Installation Cost	3.000	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	1.000	-	-	-	-	<div>Related Projects</div> <table><tr><th>Project Number</th><th>Title</th><th>FY & Appn</th><th>Value (\$ M)</th><th>Facing</th><th>Start Date</th><th>Compl Date</th></tr><tr><td colspan="7"></td></tr></table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date			Compl Date													
Total Project Cost	30.000	-	-	-	-																

Narrative Explanation:

Procurement dollars in the amount of \$30.000 million supports procurement and installation of production equipment to meet overall XM1113/XM1210 production goals at Scranton Army Ammunition Plant (AAP). The Army has developed these new longer-range artillery projectiles to support its long-range, precision fires modernization objective. Over the next several years these new 155mm Projectile Metal Parts will enter Full Rate Production (FRP). Current low rate production is handled utilizing small batch type Flexible Manufacturing Cells and the M795 Rough Turn and Finish Turn lines. This equipment is unable to meet anticipated FRP quantities and its use interferes with M795 production. This line will be a modern, robust and expandable manufacturing line capable of economically meeting anticipated XM1113/XM1210 production requirements at the Scranton AAP.

Funding executed in accordance with approved reprogramming action.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities															
Project Title: Electrical System Upgrade Phase 1						Project Number: 5242985															
End Item Supported Model:						Project Category:															
						Annual Capacity Before / After (1-8-5): /															
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	-	-	2.800	-	2.800	<div>Principal Milestones<div>Month & Year</div><div>Concept Design Complete:</div><div>Final Design Complete:</div><div>Initial/Final Project Award: Apr 2024</div><div>Construction Complete: Oct 2025</div><div>Equipment Installation Complete: Apr 2026</div><div>Prove Out Begins:</div><div>Prove Out Complete:</div></div>															
B. Equipment Cost	-	-	4.200	-	4.200																
C. Equipment Installation Cost	-	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	-	-	-	-	-																
Total Project Cost	-	-	7.000	-	7.000	<div>Related Projects</div> <table><tr><th>Project Number</th><th>Title</th><th>FY & Appn</th><th>Value (\$ M)</th><th>Facing</th><th>Start Date</th><th>Compl Date</th></tr><tr><td colspan="7"></td></tr></table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date															
<div>Narrative Explanation:</div> <p>FY 2024 Base procurement dollars in the amount of \$7.000 million supports procurement and installation of electrical systems at Scranton Army Ammunition Plant (AAP). The electrical distribution system at Scranton AAP was installed in the early 1950's and many components are now obsolete including the main distribution breakers. This project will rebuild or replace obsolete breakers, substations and cables as needed in order to increase Scranton AAP's ability to meet future production demands and mitigate risks associated with degraded electrical infrastructure.</p>																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: 155mm Capacity Improvements						Project Number: 5XX5186	Project Category:					
End Item Supported Model: 155mm Artillery						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Sep 2022 / Jul 2023 Construction Complete: Equipment Installation Complete: Dec 2024 Prove Out Begins: Jan 2025 Prove Out Complete: Jun 2025						
B. Equipment Cost	7.500	18.500	-	-	-							
C. Equipment Installation Cost	2.000	6.000	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	0.500	0.500	-	-	-	Related Projects						
Total Project Cost	10.000	25.000	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$25.000 million supports planning activities necessary to increase production of the M795 projectile at Scranton Army Ammunition Plant. A conceptual design is needed to evaluate the layout and baseline production capability. Additional funding included in FY 2023 supplemental appropriations.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: 155mm Capacity Expansion						Project Number: 5235187						
End Item Supported Model: M1128, M795						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	10.000	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Feb 2023 / Aug 2023 Construction Complete: Equipment Installation Complete: Mar 2024 Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	91.000	-	-	-							
C. Equipment Installation Cost	-	10.000	-	-	-							
D. Contractor Support Cost	-	4.000	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-							
Total Project Cost	-	115.000	-	-	-	Related Projects						
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$115.000 million supports procurement and installation of a standalone M1128 production line at General Dynamics Garland facility. This project will include both a traditional metal parts manufacturing capability as well as a production technology known as free flow forming and will be capable of producing surge capacity M795 metal parts. Additional \$115.000 million included in FY 2023 supplemental appropriations.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023													
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities													
Project Title: M795 Long-Term Production Capacity Increase						Project Number: 5235188		Project Category:											
End Item Supported Model: M795						Annual Capacity Before / After (1-8-5): /													
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO													
A. Construction Cost	-	60.000	-	-	-	<div>Principal Milestones<div>Month & Year</div></div> <div>Concept Design Complete:</div> <div>Final Design Complete:</div> <div>Initial/Final Project Award:Feb 2023 / Aug 2023</div> <div>Construction Complete:</div> <div>Equipment Installation Complete:Feb 2026</div> <div>Prove Out Begins:</div> <div>Prove Out Complete:</div>													
B. Equipment Cost	-	152.000	-	-	-														
C. Equipment Installation Cost	-	20.000	-	-	-														
D. Contractor Support Cost	-	5.000	-	-	-														
E. Corps of Engineers Support Cost	-	6.000	-	-	-														
F. Other In-House Support Cost	-	-	-	-	-														
G. Total Facility Project Cost	-	-	-	-	-														
H. Other Costs	-	-	-	-	-	<div>Related Projects</div> <table><tr><th>Project Number</th><th>Title</th><th>FY & Appn</th><th>Value (\$ M)</th><th>Facing</th><th>Start Date</th><th>Compl Date</th></tr></table>							Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date								Compl Date						
Total Project Cost	-	243.000	-	-	-														
Narrative Explanation: Procurement dollars in the amount of \$243.000 million supports capacity expansion of M795 metal parts production at Scranton Army Ammunition Plant (AAP). This includes design, building modifications, equipment moves, procurement and installation of new equipment, and improved automation. In addition, this modernization project will include flexibility to produce M1128 metal parts. As part of the automation upgrades, there will be improved material handling which will provide a safer environment for personnel. In order to accommodate additional capacity, this funding will also be used for the expansion of Scranton AAP. Additional \$243.000 million included in FY 2023 supplemental appropriations.																			

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army							Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: GD Wilkes-Barre M795 Long-Term Production Capacity Increase						Project Number: 5235189		Project Category:				
End Item Supported Model: M795							Annual Capacity Before / After (1-8-5): /					
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	25.000	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2023 / Sep 2023 Construction Complete: Equipment Installation Complete: Mar 2026 Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	154.000	-	-	-							
C. Equipment Installation Cost	-	18.000	-	-	-							
D. Contractor Support Cost	-	4.500	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-							
Total Project Cost	-	201.500	-	-	-	Related Projects						
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$201.500 million supports capacity expansion of M795 metal parts production at General Dynamics North East PA (GD NEPA) facility. This includes design, new building construction, equipment moves, procurement and installation of new equipment, and improved automation. Additional \$201.500 million included in FY 2023 supplemental appropriations.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities								
Project Title: M107 Production Line Relocation				Project Number: 5235190		Project Category:						
End Item Supported Model: M107, 5"/54						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	15.000	-	-	-	<div>Principal Milestones<div>Month & Year</div><div>Concept Design Complete:</div><div>Final Design Complete:</div><div>Initial/Final Project Award:Mar 2023 / Sep 2023</div><div>Construction Complete:</div><div>Equipment Installation Complete:Mar 2025</div><div>Prove Out Begins:</div><div>Prove Out Complete:</div></div>						
B. Equipment Cost	-	93.000	-	-	-							
C. Equipment Installation Cost	-	7.500	-	-	-							
D. Contractor Support Cost	-	4.000	-	-	-							
E. Corps of Engineers Support Cost	-	3.000	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	5.000	-	-	-							
Total Project Cost	-	127.500	-	-	-	Related Projects						
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$127.500 million supports relocation, modernization, and installation of a M107 and 5"/54 metal parts production line at Rock Island Arsenal (RIA). Effort will transfer existing M107 and 5"54 production equipment from Scranton Army Ammunition Plant to an existing facility at RIA. This includes all transportation, building renovations, and procurement of additional required equipment. Additional \$127.500 million included in FY 2023 supplemental appropriations.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Heat Treat Filter Tower Replacement						Project Number: 5223208						
End Item Supported Model:						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	1.500	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2023 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-	Related Projects						
Total Project Cost	1.500	-	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: Procurement dollars in the amount of \$1.500 million supports Heat Treat Filter Tower replacement at Scranton Army Ammunition Plant. Due to age and previous fires within the Heat Treat Filter Tower, the structure has reached the end of its useful life. The structure is warped and requires a complete replacement. Without replacement, the three Holcroft Heat Treat furnaces will be inoperable due to the lack of an exhaust system. This will make the Heat Treat operation unsafe and may lead to potential violations. Funding supported by a Congressional Add.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Process Line Air Compressor Replacement						Project Number: 5225184		Project Category:				
End Item Supported Model:						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	1.000	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2023 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-	Related Projects						
Total Project Cost	1.000	-	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:

Procurement dollars in the amount of \$1.000 million supports Process Line Air Compressor Replacement at Scranton Army Ammunition Plant. Effort will improve air quality within production operations. The compressed air is used to feed various ancillary equipment throughout the facility which is a part of the metal parts production process. Two current air compressors require replacement to reduced downtime and meet future production requirements.

Funding supported by a Congressional Add.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army							Date: March 2023																
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities																	
Project Title: Cyber Critical Infrastructure Risk Management (CIRM) Resiliency						Project Number: 5225169		Project Category:															
End Item Supported Model:							Annual Capacity Before / After (1-8-5): /																
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO																	
A. Construction Cost	1.500	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2023 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:																	
B. Equipment Cost	-	-	-	-	-																		
C. Equipment Installation Cost	-	-	-	-	-																		
D. Contractor Support Cost	-	-	-	-	-																		
E. Corps of Engineers Support Cost	-	-	-	-	-																		
F. Other In-House Support Cost	-	-	-	-	-																		
G. Total Facility Project Cost	-	-	-	-	-																		
H. Other Costs	-	-	-	-	-	Related Projects <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Project Number</th> <th>Title</th> <th>FY & Appn</th> <th>Value (\$ M)</th> <th>Facing</th> <th>Start Date</th> <th>Compl Date</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date					Compl Date													
Total Project Cost	1.500	-	-	-	-																		
Narrative Explanation: Procurement dollars in the amount of \$1.500 million supports Cybersecurity resiliency efforts at Scranton Army Ammunition Plant (AAP). This effort will identify cybersecurity risks and then conduct a qualitative risk assessment to prioritize based on criticality, so mitigation can occur in order to bring cybersecurity risk to an acceptable level. Additionally, this project is intended to enhance and defend the process control networks at Scranton AAP, in order to create a more modern, managed environment. In identifying risks, the Contractor-Operator of Scranton AAP will consider its existing IT architecture and its methods of compliance with cybersecurity clauses of its prime contract to identify potential compatibility risks where Industrial Control Systems and its other IT systems integrate. This includes potential network architecture and infrastructure upgrades. This project will position the site to protect against emerging cyber threats and be prepared to implement new requirements as they are developed. Funding supported by a Congressional Add.																							

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army							Date: March 2023																		
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities																			
Project Title: Production Shop Concrete Roof Repair						Project Number: 5223922		Project Category:																	
End Item Supported Model:								Annual Capacity Before / After (1-8-5): /																	
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Scranton Army Ammunition Plant Facility Location: Scranton, Pennsylvania Facility Type (GOGO, GOCO, COCO): GOCO																			
A. Construction Cost	1.300	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2023 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:																			
B. Equipment Cost	-	-	-	-	-																				
C. Equipment Installation Cost	-	-	-	-	-																				
D. Contractor Support Cost	-	-	-	-	-																				
E. Corps of Engineers Support Cost	-	-	-	-	-																				
F. Other In-House Support Cost	-	-	-	-	-																				
G. Total Facility Project Cost	-	-	-	-	-																				
H. Other Costs	-	-	-	-	-																				
Total Project Cost	1.300	-	-	-	-	<div style="text-align: center;">Related Projects</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Project Number</th> <th style="width: 30%;">Title</th> <th style="width: 15%;">FY & Appn</th> <th style="width: 10%;">Value (\$ M)</th> <th style="width: 10%;">Facing</th> <th style="width: 10%;">Start Date</th> <th style="width: 10%;">Compl Date</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date																			

Narrative Explanation:

Procurement dollars in the amount of \$1.300 million supports Production Shop Concrete Roof Repair at Scranton Army Ammunition Plant. The production shop clerestory ceilings have deteriorated due to weather infiltration via window frames and rooftop siding. The concrete ceilings have areas of spalling and exposed rebar. An initial preliminary analysis was performed by KBA Engineering, PC of Jermyn, Pennsylvania which resulted in preliminary findings and recommendations for the areas studied. Complete implementation of this project will focus on a more complete assessment of the production shop clerestory ceilings with repair recommendations and some immediate repairs performed.

Funding supported by a Congressional Add.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities								
Project Title: Planning & Design in Support of Provision of Industrial Facilities				Project Number: 5XX0000		Project Category:						
End Item Supported Model: Multiple						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Various Army Ammunition Plants Facility Location: Various Army Ammunition Plants Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Dec 2021 / Mar 2024 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	59.577	72.498	48.003	-	48.003	Related Projects						
Total Project Cost	59.577	72.498	48.003	-	48.003	Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: FY 2024 Base procurement dollars in the amount of \$48.003 million supports various engineering studies, digital engineering, analysis, preliminary and final designs in support of the Army Ammunition Plants at Holston, Iowa, Lake City, Radford, Scranton, Quad City Cartridge Case Facility, and Milan. In addition, funding supports Corps of Engineers supervisory and administration costs as well as contingency requirements related to modernization efforts.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities								
Project Title: Quality of Work Environment Upgrades				Project Number: 5XX5405		Project Category:						
End Item Supported Model: Multiple						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Various Army Ammunition Plants Facility Location: Various Army Ammunition Plants Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	4.000	9.000	4.000	-	4.000	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Apr 2022 / Apr 2024 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-	Related Projects						
Total Project Cost	4.000	9.000	4.000	-	4.000							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: FY 2024 Base procurement dollars in the amount of \$4.000 million supports quality of work environment upgrades to munition production lines at various Army Ammunition Plants (AAPs.) The AAPs, to include Holston, Lake City, Radford, Iowa, and Scranton, were constructed in the 1940s. While various modernization initiatives have upgrade antiquated production lines, the Plants continue to lack modernized support facilities. This effort will fund quality of work environment upgrades for production operations personnel.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10				P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities								
Project Title: Major Maintenance at GOCO AAPs				Project Number: 5XX5406		Project Category:						
End Item Supported Model: Multiple						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Various Army Ammunition Plants Facility Location: Various Army Ammunition Plants Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	2.000	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Mar 2022 / Mar 2024 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	6.900	4.500	4.000	-	4.000	Related Projects						
Total Project Cost	8.900	4.500	4.000	-	4.000	Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: FY 2024 Base procurement dollars in the amount of \$4.000 million support major maintenance upgrades at various Army Ammunition Plants (AAPs), to include Holston, Lake City, Radford, Iowa, and Scranton. The major maintenance upgrades include, but are not limited to, repair of storage tanks to remediate environmental hazardous, replacement of deteriorated roofs to ensure production equipment is not damaged, repair of infrastructure to maintain safe egress of ammunition and munitions components. Additionally, project will replace outdated equipment and support replacement and upgrade of existing industrial operations information technology and operational technology systems at various AAPs.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Critical Spare Parts						Project Number: 5225154						
End Item Supported Model:						Project Category:						
						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Various Army Ammunition Plants Facility Location: Various Army Ammunition Plants Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Dec 2022 / Apr 2023 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	8.000	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	-	-	-	-	-	Related Projects						
Total Project Cost	8.000	-	-	-	-							
						Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date

Narrative Explanation:
Procurement dollars in the amount of \$8.000 million supports the critical long lead spare parts necessary to maintain production capacity at Holston, Scranton, and Radford Army Ammunition Plants.

Funding executed in accordance with approved reprogramming action.

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities															
Project Title: Safety and Environmental Upgrades						Project Number: 5235411															
End Item Supported Model:						Project Category:															
						Annual Capacity Before / After (1-8-5): /															
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Various Army Ammunition Plants Facility Location: Various Army Ammunition Plants Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	-	50.000	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Apr 2023 / Sep 2023 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:															
B. Equipment Cost	-	104.000	-	-	-																
C. Equipment Installation Cost	-	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	-	46.000	-	-	-																
Total Project Cost	-	200.000	-	-	-	Related Projects <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="text-align: center;">Project Number</th> <th style="text-align: center;">Title</th> <th style="text-align: center;">FY & Appn</th> <th style="text-align: center;">Value (\$ M)</th> <th style="text-align: center;">Facing</th> <th style="text-align: center;">Start Date</th> <th style="text-align: center;">Compl Date</th> </tr> <tr> <td colspan="7" style="height: 20px;"> </td> </tr> </table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date															
Narrative Explanation: Procurement dollars in the amount of \$200.000 million support safety and environmental upgrades, unplanned and emergent requirements, and equipment and construction costs at Army Ammunition Plants to include, but not limited to, Holston, Iowa, Lake City, Radford, and Scranton Army Ammunition Plants (AAPs). Projects will address production and infrastructure deficiencies across the AAPs and will modernize current structures. Efforts include replacement and repair of unsafe facilities, infrastructure and equipment. Projects will maintain production continuity of propellants, explosives and small caliber ammunition. These items support the DOD Joint Warfighter tactical and reserve munitions requirements. Funding supported by a Congressional Add.																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023															
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities															
Project Title: Replace Test Instrumentation in Production Acceptance Testing (Ammunition)						Project Number: 5XX5060															
End Item Supported Model: Initial Production Acceptance & Product Improvements for Ammunition						Project Category:															
						Annual Capacity Before / After (1-8-5): /															
Cost Elements <i>(\$ in Millions)</i>	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Yuma Proving Ground / Aberdeen Test Center Facility Location: Yuma, Arizona / Aberdeen, Maryland Facility Type (GOGO, GOCO, COCO): GOCO															
A. Construction Cost	-	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:															
B. Equipment Cost	-	-	-	-	-																
C. Equipment Installation Cost	-	-	-	-	-																
D. Contractor Support Cost	-	-	-	-	-																
E. Corps of Engineers Support Cost	-	-	-	-	-																
F. Other In-House Support Cost	-	-	-	-	-																
G. Total Facility Project Cost	-	-	-	-	-																
H. Other Costs	0.160	0.657	0.787	-	0.787	Related Projects <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">Project Number</th> <th style="text-align: center;">Title</th> <th style="text-align: center;">FY & Appn</th> <th style="text-align: center;">Value (\$ M)</th> <th style="text-align: center;">Facing</th> <th style="text-align: center;">Start Date</th> <th style="text-align: center;">Compl Date</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>		Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date							
Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date			Compl Date													
Total Project Cost	0.160	0.657	0.787	-	0.787																
Narrative Explanation: FY 2024 Base procurement dollars in the amount of \$0.787 million continues to support test mission activities at Aberdeen Test Center (ATC) and Yuma Test Center (YTC). Supports the procurement of ammunition/weapons components including gun mounts, gun tubes, breech assemblies, and other main weapon system components. These components are required to support proof and acceptance testing at ATC and Yuma Test Center YTC. Without these components, the Army will be unable to conduct the testing required to accept ammunition end items into its inventory and to mitigate operational risk due to ammunition shortfalls across the Army. At ATC, continues replacement and procurement for Weapon and Weapon Components which have experienced wear and tear during repetitive testing of production ammunition items. Typical purchases include: rifle/carbine/machine gun barrels, receivers, and parts; large caliber barrels; small and medium caliber Mann-type test barrels, mortar barrels and bipod/baseplates. Timely replacement of worn or unserviceable weapons/components will permit test execution without delays for acquisition of supporting equipment. At YTC, procures Ammo Components to continue support Production Acceptance Test (PAT) of artillery and mortar ammunition components at YTC throughout the year. Also procures replacement parts for large and small caliber direct fire weapon systems for production based support, which will improve weapon reliability and reduce potential testing downtime if sudden repairs are needed. This project increases test efficiencies and decreases costs and risks to Army Program Managers.																					

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Maintenance of Inactive Facilities						Project Number: 5XX4073	Project Category:					
End Item Supported Model:						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Maintenance of Inactive Facilities Facility Location: Various AAPs Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Dec 2021 / Apr 2024 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	5.109	6.972	6.930	-	6.930	Related Projects						
Total Project Cost	5.109	6.972	6.930	-	6.930	Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: FY 2024 Base procurement dollars in the amount \$6.930 million supports the care and maintenance of laid-away equipment and facilities at active and inactive Army ammunition installations.												

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Exhibit P-25, Production Support and Industrial Facilities Cost Analysis: PB 2024 Army						Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 0572EP1000 / Industrial Facilities						
Project Title: Layaway Of Industrial Facilities						Project Number: 5XX8000	Project Category:					
End Item Supported Model:						Annual Capacity Before / After (1-8-5): /						
Cost Elements (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Facility Name: Layaway Of Industrial Facilities Facility Location: Various AAPs Facility Type (GOGO, GOCO, COCO): GOCO						
A. Construction Cost	-	-	-	-	-	Principal Milestones Month & Year Concept Design Complete: Final Design Complete: Initial/Final Project Award: Nov 2020 / May 2024 Construction Complete: Equipment Installation Complete: Prove Out Begins: Prove Out Complete:						
B. Equipment Cost	-	-	-	-	-							
C. Equipment Installation Cost	-	-	-	-	-							
D. Contractor Support Cost	-	-	-	-	-							
E. Corps of Engineers Support Cost	-	-	-	-	-							
F. Other In-House Support Cost	-	-	-	-	-							
G. Total Facility Project Cost	-	-	-	-	-							
H. Other Costs	25.035	12.436	12.355	-	12.355	Related Projects						
Total Project Cost	25.035	12.436	12.355	-	12.355	Project Number	Title	FY & Appn	Value (\$ M)	Facing	Start Date	Compl Date
Narrative Explanation: FY 2024 Base procurement dollars in the amount of \$12.355 million supports the protection and preservation of industrial facilities at active and inactive Army ammunition installations to include, but not limited to, Government-Owned Contractor-Operated (GOCO) facilities such as Holston, Iowa, Lake City, Milan, Radford, and Scranton Army Ammunition Plants (AAP), Pine Bluff Arsenal, and Quad City Cartridge Case Facility. Funds support layaway of facilities and equipment that are no longer required for current production but must be retained for future peacetime or emergency production needs. Funds also supports the decontamination and demolition of excess production equipment and facilities buildings to include, but not limited to, the legacy nitrocellulose facility at Radford AAP.												

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army

Date: March 2023

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 02: Ammunition Production Base Support / BSA 10: Production Base Support

P-1 Line Item Number / Title:
4099EP1700 / Conventional Munitions Demilitarization

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3,739.817	132.410	80.970	183.752	-	183.752	135.379	165.976	174.678	181.277	-	4,794.259
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	3,739.817	132.410	80.970	183.752	-	183.752	135.379	165.976	174.678	181.277	-	4,794.259
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,739.817	132.410	80.970	183.752	-	183.752	135.379	165.976	174.678	181.277	-	4,794.259
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Conventional Munitions Demilitarization Program provides for the demilitarization (demil) and disposal of conventional ammunition and missiles that are unserviceable, obsolete, or excess to need for all Military Services per Department of Defense (DoD) Directive 5160.65 and DoD Instruction 5160.68. The program accomplishes demil using open burning/open detonation (OB/OD) processes or closed disposal technologies (CDT) with primary emphasis on resource recovery and recycling (R3). This program also provides technical support and services; packaging, crating, handling, and transportation (PCHT) of ammunition for demil projects at United States Army depots, plants and activities; commercial contracts that provide closed disposal technologies demil support and services and associated packaging, crating, handling, and transportation; and international operations, which include the European and Pacific Theaters.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army								Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 02: Ammunition Production Base Support / BSA 10: Production Base Support						P-1 Line Item Number / Title: 4099EP1700 / Conventional Munitions Demilitarization				
ID Code (A=Service Ready, B=Not Service Ready):			Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	EP1800 / Conventional Ammunition Demilitarization (SMCA)				- / 3,046.058	- / 97.721	- / 56.340	- / 154.790	- / -	- / 154.790
P-5	EP1801 / Other Non-Army Service Demil Items (non-SMCA)				- / 101.833	- / 10.784	- / 13.119	- / 8.949	- / -	- / 8.949
P-5	EP1802 / Army Missile Demilitarization				- / 542.391	- / 16.146	- / 7.016	- / 10.903	- / -	- / 10.903
P-5	EP1803 / Non-Army Missile Demilitarization				- / 49.535	- / 7.759	- / 4.495	- / 9.110	- / -	- / 9.110
P-40	Total Gross/Weapon System Cost				- / 3,739.817	- / 132.410	- / 80.970	- / 183.752	- / -	- / 183.752
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
<p>Justification:</p> <p>FY 2024 funding will support the United States demilitarization and disposition of 37,368 tons of conventional ammunition as well as 4,198 tons of missile/components. This work is to be accomplished in both Continental United States (CONUS) and Outside the Continental United States (OCONUS). CONUS demil operations are performed by a combination of Government Owned, Government Operated (GOGO) facilities, Government Owned, Contractor Operated (GOCO) facilities as well as commercial contractors. Demil operations will focus on reducing the munitions with most tonnage; such as, Depleted Uranium munitions, 155mm High Explosive Anti-Personnel projectiles, Anti-Personnel Landmines, Hexachloroethane (HC) Smoke munitions, Rocket Motors and Multiple Launch Rocket Motors. OCONUS demil operations are performed at Demilitarization Facilities in Japan as well as commercial contractors in the European Union. Cost increases in the various categories of the P-5 Cost Analysis Forms reflect decreases in quantities and tonnage of munitions being destroyed within those cost categories, and transportation to relocate munitions to sites with the capability to properly demilitarize and dispose.</p> <p>As of 31 January 2023, the Single Manager for Conventional Ammunition (SMCA) Resource, Recovery and Disposition Account (B5A) contained 339,556 tons of ammunition in storage consisting of 300,484 tons of conventional ammunition and 39,072 tons of Missile Components. Reduction of the B5A account provides mission readiness to access munition, storage management efficiency of serviceable items, and available storage for newly produced munitions. Safety and environmental risks associated with emergency demil will increase with aging stockpile resulting in increased risk due to degrading munitions and increased costs to maintain required safety in storage inspections.</p>										

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10							P-1 Line Item Number / Title: 4099EP1700 / Conventional Munitions Demilitarization						Item Number / Title [DODIC]: EP1800 / Conventional Ammunition Demilitarization (SMCA)					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				3,046.058		97.721		56.340		154.790		-		154.790				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				3,046.058		97.721		56.340		154.790		-		154.790				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				3,046.058		97.721		56.340		154.790		-		154.790				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Demilitarization Cost																		
WHITE PHOSPHORUS	-	-	99.869	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEMOLITION MATERIAL	-	-	2.551	-	-	3.663	-	-	-	-	-	-	-	-	-	-	-	-
HE DETONATORS/ BOOSTERS	-	-	5.334	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HE BOMBS	-	-	47.670	-	-	0.023	-	-	-	-	-	1.579	-	-	-	-	-	1.579
HE CARTRIDGES	-	-	180.040	-	-	2.577	-	-	-	-	-	-	-	-	-	-	-	-
GRENADES	-	-	3.529	-	-	1.611	-	-	-	-	-	-	-	-	-	-	-	-
HE DEPTH CHARGES	-	-	17.572	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLUSTER BOMBS/ ICM; ANTI-TANK & PERSONNEL	-	-	367.439	-	-	-	-	-	25.727	-	-	36.094	-	-	-	-	-	36.094
HE LAND MINES	-	-	90.317	-	-	-	-	-	-	-	-	5.774	-	-	-	-	-	5.774
INERT	-	-	40.246	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MULTIPLE FAMILY	-	-	521.516	-	-	3.551	-	-	3.151	-	-	3.207	-	-	-	-	-	3.207
BULK HIGH EXPLOSIVES	-	-	127.180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PROPELLANT CHARGES/INCREMENT CHARGES	-	-	157.321	-	-	-	-	-	7.545	-	-	-	-	-	-	-	-	-
TARGET PRACTICES/ 40MM ANTI-AIRCRAFT	-	-	52.158	-	-	-	-	-	-	-	-	2.400	-	-	-	-	-	2.400
SMALL ARMS AMMO THRU 20MM	-	-	37.099	-	-	1.006	-	-	-	-	-	8.812	-	-	-	-	-	8.812

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10							P-1 Line Item Number / Title: 4099EP1700 / Conventional Munitions Demilitarization						Item Number / Title [DODIC]: EP1800 / Conventional Ammunition Demilitarization (SMCA)					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
INCINERABLE MUNITIONS/ MISCELLANEOUS	-	-	78.887	-	-	0.925	-	-	1.650	-	-	1.685	-	-	-	-	-	1.685
FUZES	-	-	54.976	-	-	0.886	-	-	-	-	-	0.813	-	-	-	-	-	0.813
TRANSPORTATION	-	-	209.575	-	-	8.459	-	-	6.820	-	-	16.572	-	-	-	-	-	16.572
MUNITIONS CHARACTERIZATION	-	-	89.040	-	-	-	-	-	2.500	-	-	4.300	-	-	-	-	-	4.300
OCONUS DEMIL - EUCOM	-	-	48.235	-	-	-	-	-	0.466	-	-	0.450	-	-	-	-	-	0.450
OCONUS DEMIL - PACOM	-	-	11.630	-	-	0.035	-	-	0.311	-	-	0.350	-	-	-	-	-	0.350
CONTRACT - CONUS DEMIL	-	-	729.208	-	-	70.829	-	-	5.620	-	-	30.959	-	-	-	-	-	30.959
DU Cartridges	-	-	21.772	-	-	0.983	-	-	-	-	-	13.115	-	-	-	-	-	13.115
ROCKET MOTORS	-	-	-	-	-	-	-	-	-	-	-	2.352	-	-	-	-	-	2.352
Contract Donor Material	-	-	-	-	-	-	-	-	-	-	-	22.000	-	-	-	-	-	22.000
Smoke Illum	-	-	-	-	-	-	-	-	-	-	-	2.128	-	-	-	-	-	2.128
Subtotal: Support - Demilitarization Cost	-	-	2,993.164	-	-	94.548	-	-	53.790	-	-	152.590	-	-	-	-	-	152.590
Support - Program Management Cost																		
Government Management	-	-	52.894	-	-	3.173	-	-	2.550	-	-	2.200	-	-	-	-	-	2.200
Subtotal: Support - Program Management Cost	-	-	52.894	-	-	3.173	-	-	2.550	-	-	2.200	-	-	-	-	-	2.200
Gross/Weapon System Cost	-	-	3,046.058	-	-	97.721	-	-	56.340	-	-	154.790	-	-	-	-	-	154.790

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 4099EP1700 / Conventional Munitions Demilitarization						Item Number / Title [DODIC]: EP1801 / Other Non-Army Service Demil Items (non-SMCA)						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				101.833		10.784		13.119		8.949		-		8.949				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				101.833		10.784		13.119		8.949		-		8.949				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				101.833		10.784		13.119		8.949		-		8.949				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Demilitarization Cost																		
TORPEDOES	-	-	44.885	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SONOBUOYS	-	-	2.404	-	-	-	-	-	-	-	-	1.516	-	-	-	-	-	1.516
CONTRACT - CONUS DEMIL	-	-	22.847	-	-	8.521	-	-	6.929	-	-	-	-	-	-	-	-	-
TRANSPORTATION	-	-	4.190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INCINERABLE MUNITIONS/ MISCELLANEOUS	-	-	1.470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLUSTER BOMBS/ ICM; ANTI-TANK & PERSONNEL	-	-	9.382	-	-	-	-	-	6.190	-	-	5.890	-	-	-	-	-	5.890
DU Cartridges	-	-	16.655	-	-	2.263	-	-	-	-	-	1.543	-	-	-	-	-	1.543
Subtotal: Support - Demilitarization Cost	-	-	101.833	-	-	10.784	-	-	13.119	-	-	8.949	-	-	-	-	-	8.949
Gross/Weapon System Cost	-	-	101.833	-	-	10.784	-	-	13.119	-	-	8.949	-	-	-	-	-	8.949

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Exhibit P-5, Cost Analysis: PB 2024 Army													Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 4099EP1700 / Conventional Munitions Demilitarization							Item Number / Title [DODIC]: EP1802 / Army Missile Demilitarization					
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				542.391		16.146		7.016		10.903		-		10.903				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				542.391		16.146		7.016		10.903		-		10.903				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				542.391		16.146		7.016		10.903		-		10.903				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Demilitarization Cost																		
MULTIPLE LAUNCH ROCKET SYSTEM	-	-	245.564	-	-	3.243	-	-	0.891	-	-	0.122	-	-	-	-	-	0.122
ROCKET MOTORS	-	-	8.875	-	-	1.850	-	-	0.223	-	-	-	-	-	-	-	-	-
TOW CD/R3	-	-	41.843	-	-	0.194	-	-	-	-	-	0.013	-	-	-	-	-	0.013
HELLFIRE	-	-	0.620	-	-	0.032	-	-	-	-	-	0.024	-	-	-	-	-	0.024
STINGER	-	-	2.596	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PATRIOT	-	-	2.926	-	-	1.020	-	-	0.496	-	-	0.619	-	-	-	-	-	0.619
HONEST JOHN	-	-	1.716	-	-	0.225	-	-	0.020	-	-	0.120	-	-	-	-	-	0.120
MISSILE COMPONENTS	-	-	71.641	-	-	1.040	-	-	0.179	-	-	-	-	-	-	-	-	-
HAWK MOTORS	-	-	4.266	-	-	0.302	-	-	0.296	-	-	0.311	-	-	-	-	-	0.311
DEMIL PROCESS IMPROVEMENTS	-	-	95.069	-	-	2.246	-	-	-	-	-	1.312	-	-	-	-	-	1.312
TRANSPORTATION	-	-	25.398	-	-	1.800	-	-	1.717	-	-	0.975	-	-	-	-	-	0.975
MULTIPLE FAMILY	-	-	3.396	-	-	-	-	-	0.058	-	-	0.158	-	-	-	-	-	0.158
CONTRACT - CONUS DEMIL	-	-	-	-	-	1.822	-	-	0.882	-	-	4.006	-	-	-	-	-	4.006
Subtotal: Support - Demilitarization Cost	-	-	503.910	-	-	13.774	-	-	4.762	-	-	7.660	-	-	-	-	-	7.660
Support - Program Management Cost																		
Government Management	-	-	38.481	-	-	2.372	-	-	2.254	-	-	3.243	-	-	-	-	-	3.243
Subtotal: Support - Program Management Cost	-	-	38.481	-	-	2.372	-	-	2.254	-	-	3.243	-	-	-	-	-	3.243

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 4099EP1700 / Conventional Munitions Demilitarization						Item Number / Title [DODIC]: EP1802 / Army Missile Demilitarization						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	542.391	-	-	16.146	-	-	7.016	-	-	10.903	-	-	-	-	-	10.903

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Exhibit P-5, Cost Analysis: PB 2024 Army												Date: March 2023						
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 02 / 10						P-1 Line Item Number / Title: 4099EP1700 / Conventional Munitions Demilitarization						Item Number / Title [DODIC]: EP1803 / Non-Army Missile Demilitarization						
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (<i>\$ in Millions</i>)				49.535		7.759		4.495		9.110		-		9.110				
Less PY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Net Procurement (P-1) (<i>\$ in Millions</i>)				49.535		7.759		4.495		9.110		-		9.110				
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Total Obligation Authority (<i>\$ in Millions</i>)				49.535		7.759		4.495		9.110		-		9.110				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (<i>\$ in Millions</i>)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Support - Demilitarization Cost																		
HE MISSILES	-	-	40.006	-	-	-	-	-	0.247	-	-	3.248	-	-	-	-	-	3.248
ROCKET MOTORS	-	-	4.400	-	-	2.848	-	-	1.292	-	-	1.497	-	-	-	-	-	1.497
MISSILE COMPONENTS	-	-	1.878	-	-	2.072	-	-	1.742	-	-	0.060	-	-	-	-	-	0.060
Demilitarization	-	-	0.163	-	-	-	-	-	-	-	-	0.250	-	-	-	-	-	0.250
Maverick Missile	-	-	3.088	-	-	0.617	-	-	0.249	-	-	-	-	-	-	-	-	-
Tomahawk	-	-	-	-	-	2.222	-	-	0.818	-	-	1.515	-	-	-	-	-	1.515
TRANSPORTATION	-	-	-	-	-	-	-	-	0.147	-	-	0.030	-	-	-	-	-	0.030
MULTIPLE LAUNCH ROCKET SYSTEM	-	-	-	-	-	-	-	-	-	-	-	2.510	-	-	-	-	-	2.510
Subtotal: Support - Demilitarization Cost	-	-	49.535	-	-	7.759	-	-	4.495	-	-	9.110	-	-	-	-	-	9.110
Gross/Weapon System Cost	-	-	49.535	-	-	7.759	-	-	4.495	-	-	9.110	-	-	-	-	-	9.110

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Exhibit P-40, Budget Line Item Justification: PB 2024 Army										Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 02: Ammunition Production Base Support / BSA 10: Production Base Support							P-1 Line Item Number / Title: 4150EP2500 / ARMS Initiative					
ID Code (A=Service Ready, B=Not Service Ready):				Program Elements for Code B Items: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	373.845	3.178	4.039	4.057	-	4.057	4.132	4.181	4.225	4.342	-	401.999
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	373.845	3.178	4.039	4.057	-	4.057	4.132	4.181	4.225	4.342	-	401.999
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	373.845	3.178	4.039	4.057	-	4.057	4.132	4.181	4.225	4.342	-	401.999
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Description: The Armament Retooling and Manufacturing Support (ARMS) program reuses idle capacity at active and inactive Government-Owned, Contractor-Operated (GOCO) Army Ammunition Plants and the GOCO Hawthorne Army Depot through commercialization. Congress enacted this program in the FY 1993 Defense Authorization Act (Public Law (PL) 102-484) and codified in FY 2000 (10 U.S.C. 7551-7555). ARMS resources are used for facility strategic reuse plans, marketing plans, building renovation and recapitalization, equipment purchase, relocation, or consolidation, as well as environmental baseline studies and site surveys to encourage commercial use of underutilized Army assets. The ARMS objectives include sustaining critical manufacturing capabilities and critical skills; reducing facility operating and maintenance costs; decreasing product cost; providing opportunities for small business; and accelerating private sector economic development, employment and investment. The ARMS program allows the Army to manage portions of the ammunition infrastructure as a commercial business. This management concept has allowed the Army to apply overhead costs across multiple commercial contracts to reduce operating costs.												
Justification: FY 2024 Base procurement dollars in the amount of \$4.057 million supports financial and marketing investments to attract revenue-producing tenants to locate on Government-Owned Contractor-Operated (GOCO) Army Ammunition Plants and the GOCO Hawthorne Army Depot. The ARMS program reduces Army cost of ownership and maintains critical munitions industrial base skills. Revenues collected will be utilized to reduce overhead and total annual operating costs, improve and maintain existing buildings for current tenants, and perform improvements to other vacant buildings to entice potential tenants.												