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Exhibit P-40, Budget Line Item Justification: FY 2018 Army **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 35: Tank Ammunition	P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, 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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,665.114	115.190	144.667	133.500	-	133.500	147.928	194.558	220.235	184.205	-	4,805.397
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,665.114	115.190	144.667	133.500	-	133.500	147.928	194.558	220.235	184.205	-	4,805.397
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,665.114	115.190	144.667	133.500	-	133.500	147.928	194.558	220.235	184.205	-	4,805.397

(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:

This budget line includes CARTRIDGE, TANK, 105MM and 120MM ALL TYPES:

(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) is used for gunnery training in the Army's 105mm Stryker Brigade Combat Team (SBCT) Mobile Gun System (MGS). 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 used by the MGS. 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.

(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.

(E73400) 120mm M865 Target Practice Cone-Stabilized Discarding Sabot with Tracer (TPCSDS-T) 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. 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.

(E78007) The 120mm M830A1 High Explosive Anti-Tank, Multi-Purpose w/Tracer,(HEAT-MP-T) cartridge is designed for use against light armor, buildings and bunkers, as well as providing self-defense capability against attack helicopters. The lethal mechanism includes a shaped-charged warhead and blast effect. This round is fired from the M256 120MM smooth-bore cannon mounted on the Abrams tank. Additionally, the M830A1 is effective against the side and rear aspects of tanks and dismantled anti-tank and automatic weapon teams (targets not suitable to kinetic energy penetrator cartridges). The fixed round utilizes a combustible cartridge case affixed to a steel stub base and loaded with granular propellant. The fin-stabilized, high chrome alloy steel projectile body contains press-loaded high explosive and a

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 35: Tank Ammunition		P-1 Line Item Number / Title: E22203 / 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>precision copper liner. The fuze is armed during launch and initiated by an impact switch or proximity sensor, depending upon the operational mode selected by the ammo loader. This item is Code A, 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: FY 2018 Army **Date:** May 2017

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

P-1 Line Item Number / Title:
E22203 / 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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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 Trnr) [CA58]	P-5a	A		2,641 / 13.127	1,022 / 5.800	1,438 / 5.900	3,064 / 8.500	- / -	3,064 / 8.500
P-5	E73201 / CTG, TANK, 120MM M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]	P-5a, P-21	A		180,284 / 387.002	8,589 / 32.500	9,892 / 53.328	19,801 / 53.100	- / -	19,801 / 53.100
P-5	E73400 / CTG TANK 120MM TPCSDS-T M865 [C785]		A		3,649,000 / 2,619.559	- / 28.263	- / 31.900	- / 32.800	- / -	- / 32.800
P-5	E78007 / CTG, TANK, 120MM HEAT-MP-T M830A1 [C791]				- / 565.934	- / -	- / 8.999	- / -	- / -	- / -
P-5	E88106 / CTG, TANK, 120MM APFSDS-T, M829A4 [CA64]	P-5a, P-21	A		4,690 / 79.489	3,359 / 48.627	3,410 / 44.540	2,606 / 39.100	- / -	2,606 / 39.100
P-40	Total Gross/Weapon System Cost				- / 3,665.114	- / 115.190	- / 144.667	- / 133.500	- / -	- / 133.500

*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 2018 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 2018 Base procurement dollars in the amount of \$133.500 million supports the procurement of .026 million cartridges.

(E22125) M724A2 – This is a training unique item not used in combat. The FY 2018 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2018 Base procurement dollars in the amount of \$8.500 million supports the procurement of .003 million M724A2 cartridges.

TYPE CLASSIFICATION DATE: 2016

(E78007) M830A1 (HEAT-MP-T) - This is a war reserve item used in combat. The request builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1993

(E73201) M1002 (TPMP-T) - This is a training unique item not used in combat. The FY 2018 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2018 Base procurement dollars in the amount of \$53.100 million supports the procurement of .020 million M1002 cartridges and recapitalization.

TYPE CLASSIFICATION DATE: 2006

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Exhibit P-40, Budget Line Item Justification: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 35: Tank Ammunition		P-1 Line Item Number / Title: E22203 / 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>(E73400) M865 (TPCSDS-T) - This is a training unique item not used in combat. FY 2018 request supports annual training and builds a depot level in accordance with the Army's procurement goals. The FY 2018 request provides a safer round by incorporating safety initiatives such as a safer case. FY 2018 Base procurement dollars in the amount of \$32.800 million supports recapitalizing .037 million M865 cartridges.</p> <p>TYPE CLASSIFICATION DATE: 1984</p> <p>(E88106) M829A4 (APFSDS-T) - This is a war reserve item used in combat. The FY 2018 request builds a war reserve inventory in accordance with the Army's procurement goals. FY 2018 Base procurement dollars in the amount of \$39.100 million supports the procurement of .003 million M829A4 cartridges.</p> <p>TYPE CLASSIFICATION DATE: 2015</p>		

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Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35		P-1 Line Item Number / Title: E22203 / 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:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	2,641	1,022	1,438	3,064	-	3,064
Gross/Weapon System Cost (\$ in Millions)	13.127	5.800	5.900	8.500	-	8.500
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	13.127	5.800	5.900	8.500	-	8.500
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	13.127	5.800	5.900	8.500	-	8.500

(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)	4,970.47	5,675.15	4,102.92	2,774.15	-	2,774.15

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 ^(†)	4,526.00	2,641	11.953	2,875.48	1,022	2.939	2,513.00	1,438	3.614	2,044.00	3,064	6.263	-	-	-	2,044.00	3,064	6.263
Subtotal: Recurring Cost	-	-	11.953	-	-	2.939	-	-	3.614	-	-	6.263	-	-	-	-	-	6.263
Subtotal: Hardware Cost	-	-	11.953	-	-	2.939	-	-	3.614	-	-	6.263	-	-	-	-	-	6.263
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.060	-	-	0.060	-	-	0.061	-	-	-	-	-	0.061
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.060	-	-	0.060	-	-	0.061	-	-	-	-	-	0.061
Support - Product Improvement Cost																		
Production Verification Test	-	-	1.054	-	-	0.365	-	-	0.361	-	-	0.478	-	-	-	-	-	0.478
Subtotal: Support - Product Improvement Cost	-	-	1.054	-	-	0.365	-	-	0.361	-	-	0.478	-	-	-	-	-	0.478
Support - Production Engineering Cost																		
Production Engineering	-	-	0.120	-	-	2.436	-	-	1.865	-	-	1.698	-	-	-	-	-	1.698
Subtotal: Support - Production Engineering Cost	-	-	0.120	-	-	2.436	-	-	1.865	-	-	1.698	-	-	-	-	-	1.698
Gross/Weapon System Cost	4,970.47	2,641	13.127	5,675.15	1,022	5.800	4,102.92	1,438	5.900	2,774.15	3,064	8.500	-	-	-	2,774.15	3,064	8.500

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: FY 2018 Army							Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35			P-1 Line Item Number / Title: E22203 / 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		2016	ALLIANT TECHSYSTEMS / PLYMOUTH, MN	C / FFP	PICATINNY ARSENAL, NJ	Aug 2016	Aug 2017	1,022	2,875.48	Y		
COMPLETE ROUND		2017	ALLIANT TECHSYSTEMS / PLYMOUTH, MN	C / FFP	PICATINNY ARSENAL, NJ	Mar 2017	Mar 2018	1,438	2,513.00	Y		
COMPLETE ROUND		2018	ALLIANT TECHSYSTEMS / PLYMOUTH, MN	C / FFP	PICATINNY ARSENAL, NJ	Mar 2018	Mar 2019	3,064	2,044.00	Y		

Remarks:
 FY 2016, FY 2017 and FY 2018 complete round is awarded as an option to the existing contract. This is a training standard item. FY 2018 Base procurement dollars in the amount of \$5.900 million supports annual training and builds a depot level in accordance with Army's procurement goals.

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Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
		Item Number / Title [DODIC]: E73201 / CTG, TANK, 120MM M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	180,284	8,589	9,892	19,801	-	19,801
Gross/Weapon System Cost (\$ in Millions)	387.002	32.500	53.328	53.100	-	53.100
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	387.002	32.500	53.328	53.100	-	53.100
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	387.002	32.500	53.328	53.100	-	53.100

(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)	2,146.62	3,783.91	5,391.02	2,681.68	-	2,681.68

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 ^(†)	2,115.71	182,918	387.001	2,803.88	8,589	24.083	2,993.00	9,892	29.607	2,273.92	19,801	45.026	-	-	-	2,273.92	19,801	45.026
Subtotal: Recurring Cost	-	-	387.001	-	-	24.083	-	-	29.607	-	-	45.026	-	-	-	-	-	45.026
Subtotal: Hardware Cost	-	-	387.001	-	-	24.083	-	-	29.607	-	-	45.026	-	-	-	-	-	45.026
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	0.429	-	-	0.621	-	-	0.806	-	-	-	-	-	0.806
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.429	-	-	0.621	-	-	0.806	-	-	-	-	-	0.806
Support - Product Improvement Cost																		
Safety	-	-	-	-	-	1.329	-	-	2.593	-	-	1.474	-	-	-	-	-	1.474
Reliability	-	-	-	-	-	0.116	-	-	1.209	-	-	0.785	-	-	-	-	-	0.785
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	1.445	-	-	3.802	-	-	2.259	-	-	-	-	-	2.259
Support - Production Engineering Cost																		
Production Engineering	-	-	0.001	-	-	3.868	-	-	4.225	-	-	5.001	-	-	-	-	-	5.001
Subtotal: Support - Production Engineering Cost	-	-	0.001	-	-	3.868	-	-	4.225	-	-	5.001	-	-	-	-	-	5.001
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.008	-	-	0.008	-	-	0.009	-	-	-	-	-	0.009

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Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35	P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types	Item Number / Title [DODIC]: E73201 / CTG, TANK, 120MM 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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 - Quality Assurance Cost</i>	-	-	-	-	-	0.008	-	-	0.008	-	-	0.009	-	-	-	-	-	0.009
Support - Recapitalization Cost																		
Recapitalization	-	-	-	-	-	2.668	-	-	15.065	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Recapitalization Cost</i>	-	-	-	-	-	2.668	-	-	15.065	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	2,146.62	180,284	387.002	3,783.91	8,589	32.500	5,391.02	9,892	53.328	2,681.68	19,801	53.100	-	-	-	2,681.68	19,801	53.100

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Army							Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35			P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types				Item Number / Title [DODIC]: E73201 / CTG, TANK, 120MM 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 (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2016	GENERAL DYNAMICS ORD AND TACT / ST PETERSBURG, FL	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Aug 2017	4,807	2,803.88	Y		
COMPLETE ROUND ^(†)		2016	ALLIANT TECHSYSTEMS / PLYMOUTH, MN	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Apr 2018	3,782	2,803.88	Y		
COMPLETE ROUND ^(†)		2017	GENERAL DYNAMICS ORD AND TACT / ST PETERSBURG, FL	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Apr 2018	4,946	2,993.00	Y		
COMPLETE ROUND ^(†)		2017	ALLIANT TECHSYSTEMS / PLYMOUTH, MN	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Apr 2018	4,946	2,993.00	Y		
COMPLETE ROUND ^(†)		2018	GENERAL DYNAMICS ORD AND TACT / ST PETERSBURG, FL	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2018	Feb 2019	10,891	2,273.92	Y		
COMPLETE ROUND ^(†)		2018	ALLIANT TECHSYSTEMS / PLYMOUTH, MN	SS / FFP	ROCK ISLAND ARSENAL, IL	Mar 2018	Feb 2019	8,910	2,273.92	Y		

^(†) indicates the presence of a P-21

Remarks:

Hardware unit prices are an average unit price for multiple producers.

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Exhibit P-21, Production Schedule: FY 2018 Army															Date: May 2017														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E73201 / CTG, TANK, 120MM M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]									

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2018												Fiscal Year 2019												B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	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: 182918																															
	1	2016	ARMY	4.807	4.807	.000																							.000		
	2	2016	ARMY	3.782	.000	3.782	-	-	-	-	-	-	1.000	1.000	1.000	.782														.000	
	1	2017	ARMY	4.946	.000	4.946	-	-	-	-	-	-	.414	.412	.412	.412	.412	.412	.412	.412	.412	.412	.412	.412	.412	.412	.412	.412	.000		
	2	2017	ARMY	4.946	.000	4.946	-	-	-	-	-	-	.414	.412	.412	.412	.412	.412	.412	.412	.412	.412	.412	.412	.412	.412	.412	.412	.000		
	1	2018	ARMY	10.891	.000	10.891							A	-	-	-	-	-	-	-	-	-	.914	.907	.907	.907	.907	.907	.907	3.628	
	2	2018	ARMY	8.910	.000	8.910							A	-	-	-	-	-	-	-	-	-	.748	.742	.742	.742	.742	.742	.742	2.968	
							O C T	N O V	D E C	J A N	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: FY 2018 Army															Date: May 2017														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E73201 / CTG, TANK, 120MM M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]									

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2020												Fiscal Year 2021												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 1 9	BAL D U E A S O F 1 O C T	Calendar Year 2020												Calendar Year 2021												
							O C T	N O V	D E C	J A N	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: 182918																															
	1	2016	ARMY	4.807	4.807	.000																								.000	
	2	2016	ARMY	3.782	3.782	.000																								.000	
	1	2017	ARMY	4.946	4.946	.000																								.000	
	2	2017	ARMY	4.946	4.946	.000																								.000	
	1	2018	ARMY	10.891	7.263	3.628	.907	.907	.907	.907																				.000	
	2	2018	ARMY	8.910	5.942	2.968	.742	.742	.742	.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: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
		Item Number / Title [DODIC]: E73201 / CTG, TANK, 120MM M1002 TP MULTI PUR-TRACE (TPMP-T) [CA31]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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 AND TACT - ST PETERSBURG, FL	100	2,880	7,800	6	6	11	17	6	6	11	17
2	ALLIANT TECHSYSTEMS - PLYMOUTH, MN	100	5,600	11,200	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: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35	P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types	Item Number / Title [DODIC]: E73400 / CTG TANK 120MM TPCSDS-T M865 [C785]

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	3,649,000	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,619.559	28.263	31.900	32.800	-	32.800
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,619.559	28.263	31.900	32.800	-	32.800
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,619.559	28.263	31.900	32.800	-	32.800

(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)	717.88	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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	715.27	3,649,000	2,610.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	2,610.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	2,610.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	1.202	-	-	0.824	-	-	-	-	-	0.824
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	1.202	-	-	0.824	-	-	-	-	-	0.824
Support - Product Improvement Cost																		
Reliability	-	-	-	-	-	1.100	-	-	1.142	-	-	1.148	-	-	-	-	-	1.148
Safety	-	-	-	-	-	2.442	-	-	1.561	-	-	0.848	-	-	-	-	-	0.848
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	3.542	-	-	2.703	-	-	1.996	-	-	-	-	-	1.996
Support - Production Engineering Cost																		
Production Engineering	-	-	9.521	-	-	2.058	-	-	1.276	-	-	2.563	-	-	-	-	-	2.563
Subtotal: Support - Production Engineering Cost	-	-	9.521	-	-	2.058	-	-	1.276	-	-	2.563	-	-	-	-	-	2.563
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	0.008	-	-	0.009	-	-	0.009	-	-	-	-	-	0.009
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	0.008	-	-	0.009	-	-	0.009	-	-	-	-	-	0.009

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Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35	P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types	Item Number / Title [DODIC]: E73400 / CTG TANK 120MM TPCSDS-T M865 [C785]

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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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	-	-	-	-	-	22.655	-	-	26.710	-	-	27.408	-	-	-	-	-	27.408
<i>Subtotal: Support - Recapitalization Cost</i>	-	-	-	-	-	22.655	-	-	26.710	-	-	27.408	-	-	-	-	-	27.408
Gross/Weapon System Cost	717.88	3,649,000	2,619.559	-	-	28.263	-	-	31.900	-	-	32.800	-	-	-	-	-	32.800

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Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35	P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types	Item Number / Title [DODIC]: E78007 / CTG, TANK, 120MM HEAT- MP-T M830A1 [C791]

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)				-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)				565.934	-	8.999	-	-	-
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				565.934	-	8.999	-	-	-
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				565.934	-	8.999	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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	-	-	-	-	-	-	-	-	0.234	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Acceptance Testing Cost</i>	-	-	-	-	-	-	-	-	0.234	-	-	-	-	-	-	-	-	-
Support - Production Engineering Cost																		
Production Engineering	-	-	565.934	-	-	-	-	-	0.630	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	565.934	-	-	-	-	-	0.630	-	-	-	-	-	-	-	-	-
Support - Quality Assurance Cost																		
Quality Assurance	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Quality Assurance Cost</i>	-	-	-	-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	-
Support - Recapitalization Cost																		
Recapitalization	-	-	-	-	-	-	-	-	8.132	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Recapitalization Cost</i>	-	-	-	-	-	-	-	-	8.132	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	565.934	-	-	-	-	-	8.999	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
		Item Number / Title [DODIC]: E88106 / CTG, TANK, 120MM APFSDS-T, M829A4 [CA64]

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	4,690	3,359	3,410	2,606	-	2,606
Gross/Weapon System Cost (\$ in Millions)	79.489	48.627	44.540	39.100	-	39.100
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	79.489	48.627	44.540	39.100	-	39.100
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	79.489	48.627	44.540	39.100	-	39.100

(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)	16,948.61	14,476.63	13,061.58	15,003.84	-	15,003.84

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 ^(†)	13,500.00	5,289	71.402	11,646.00	3,359	39.119	11,200.00	3,410	38.192	13,370.00	2,606	34.842	-	-	-	13,370.00	2,606	34.842
Subtotal: Recurring Cost	-	-	71.402	-	-	39.119	-	-	38.192	-	-	34.842	-	-	-	-	-	34.842
Subtotal: Hardware Cost	-	-	71.402	-	-	39.119	-	-	38.192	-	-	34.842	-	-	-	-	-	34.842
Support - Acceptance Testing Cost																		
Acceptance Test	-	-	-	-	-	-	-	-	0.255	-	-	0.266	-	-	-	-	-	0.266
First Article Test	-	-	-	-	-	0.201	-	-	0.188	-	-	0.177	-	-	-	-	-	0.177
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	0.201	-	-	0.443	-	-	0.443	-	-	-	-	-	0.443
Support - Non-Recurring Support Cost																		
Value Engineering	-	-	-	-	-	5.013	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Non-Recurring Support Cost	-	-	-	-	-	5.013	-	-	-	-	-	-	-	-	-	-	-	-
Support - Product Improvement Cost																		
Production Verification Test	-	-	-	-	-	-	-	-	0.213	-	-	0.219	-	-	-	-	-	0.219
Safety	-	-	-	-	-	1.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Product Improvement Cost	-	-	-	-	-	1.000	-	-	0.213	-	-	0.219	-	-	-	-	-	0.219
Support - Production Engineering Cost																		

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Exhibit P-5, Cost Analysis: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
		Item Number / Title [DODIC]: E88106 / CTG, TANK, 120MM 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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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	-	-	8.087	-	-	3.179	-	-	5.692	-	-	3.596	-	-	-	-	-	3.596
<i>Subtotal: Support - Production Engineering Cost</i>	-	-	8.087	-	-	3.179	-	-	5.692	-	-	3.596	-	-	-	-	-	3.596
Support - Study & Analysis Cost																		
Study & Analysis	-	-	-	-	-	0.115	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Study & Analysis Cost</i>	-	-	-	-	-	0.115	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	16,948.61	4,690	79.489	14,476.63	3,359	48.627	13,061.58	3,410	44.540	15,003.84	2,606	39.100	-	-	-	15,003.84	2,606	39.100

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Army							Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35			P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types				Item Number / Title [DODIC]: E88106 / CTG, TANK, 120MM 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 <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND ^(†)		2016	ALLIANT TECHSYSTEMS / PLYMOUTH, MN	C / FFP	PICATINNY ARSENAL, NJ	Aug 2016	Feb 2018	3,359	11,646.00	Y		
COMPLETE ROUND ^(†)		2017	ALLIANT TECHSYSTEMS / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL, NJ	Aug 2017	Sep 2018	3,410	11,200.00	Y		
COMPLETE ROUND ^(†)		2018	ALLIANT TECHSYSTEMS / PLYMOUTH, MN	SS / FFP	PICATINNY ARSENAL, NJ	Mar 2018	Jun 2019	2,606	13,370.00	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: FY 2018 Army															Date: May 2017														
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35										P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types										Item Number / Title [DODIC]: E88106 / CTG, TANK, 120MM APFSDS-T, M829A4 [CA64]									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020														Fiscal Year 2021														BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020														Calendar Year 2021														
							O C T	N O V	D E C	J A N	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: 5289																																			
1		2016	ARMY	3,359	3,359	0																													0
1		2017	ARMY	3,410	3,410	0																													0
1		2018	ARMY	2,606	870	1,736	217	217	217	217	217	217	217																					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: FY 2018 Army		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 35		P-1 Line Item Number / Title: E22203 / Cartridges, Tank, 105MM And 120MM, All Types
		Item Number / Title [DODIC]: E88106 / CTG, TANK, 120MM APFSDS-T, M829A4 [CA64]

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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	ALLIANT TECHSYSTEMS - PLYMOUTH, MN	100	500	1,000	6	9	15	24	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).