Exhibit P-40, Budget Line Item Justification: PB 2017 Army Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/

ER8120 / CTG, 30MM, ALL TYPES

Medium Cal 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 Item MDAP/MAIS Code(s): N/A

Line item MDAI /MAIO OCUE. N/A	Item MD	AI /IIIAIO OOU	C(3). 14//									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,208.029	87.667	34.330	47.000	20.000	67.000	57.500	56.000	56.500	57.120	-	1,624.146
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,208.029	87.667	34.330	47.000	20.000	67.000	57.500	56.000	56.500	57.120	-	1,624.146
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,208.029	87.667	34.330	47.000	20.000	67.000	57.500	56.000	56.500	57.120	-	1,624.146
(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	d 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:

(E06000)CTG, 30mm M848 is an inert training device. It physically mimics the M788 and M789 cartridges. It is used for training of proper handling and loading of ammunition and for non-firing system training and checkout of the 30mm M230 weapon prior to exposing soldiers to live ammunition. This item is Code A, approved for service use.

(E09900)CTG.30mm M789 High Explosive - Dual Purpose Cartridge is the only qualified combat cartridge for use in the Apache Helicopter's M230 Chain Gun. It is also used by SOCOM, fired from the MH-60 Blackhawk helicopter. The M789 cartridge consists of a projectile containing explosive, a shaped charge liner, a 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

(E10100)CTG,30mm M788 30mm Target Practice cartridge is the only qualified training cartridge for use in the Apache and Blackhawk Helicopter's M230 Chain Gun. The M788 consists of an inert projectile, propellant utilizes a PA520 electric primer and a lightweight aluminum cartridge case. M788 cartridges are packed in Bulk Ammunition Strips (BAS), 110 cartridges per M592 container. This item is Code A, approved for service use.

(E09191) 30x173mm MK317 is a Target Practice Discarding Sabot with Tracer (TP-T) cartridge. The MK317 cartridge consists of an inert projectile, molded plastic sabot, a pusher base, a tracer, propellant, an M36A2 percussion primer, and an aluminum cartridge case. The MK317 cartridges are packed 30 cartridges per M592 ammunition container. This item is Code B, not approved for service use.

(E07306)30x173mm MK239 Target Practice with Tracer (TP-T) cartridge is a Navy qualified training cartridge that is ballistically matched to the MK238 and MK266 High Explosive Incendiary with Tracer (HEI-T) cartridges. The MK239 cartridge consists of an inert projectile, a glass-reinforced nylon rotating band, a tracer, propellant, an M36A2 percussion primer, and an aluminum cartridge case. The MK239 cartridges are packed 30 cartridges per M592 ammunition container. This item is Code B, not approved for Army use.

(E09292)30x173mm MK258 Armor Piercing Fin Stabilized Discarding Sabot with Tracer (APFSDS-T) cartridge is a Navy gualified tactical cartridge consisting of a high-density inert tungsten alloy long-rod penetrator sub-projectile held in a three-petal aluminum sabot, a plastic nose cap and obturator, a tracer, propellant, and DNAG 8235 percussion primer. The MK258 cartridges are packed 30 cartridges per M592 ammunition container. This item is code B, not approved for Army use.

UNCLASSIFIED

LI ER8120 - CTG, 30MM, ALL TYPES Army

P-1 Line #7

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Exhibit P-40, Budget Line Item Ju	stification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / 1 2034A: Procurement of Ammunition Medium Cal Ammunition	Budget Sub Activity: n, Army / BA 01: Ammunition / BSA 30: Small/		Number / Title: G, 30MM, ALL TYPES
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B	tems: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A		
(E07406) 30x173mm MK266 High Explosive	e Incendiary with Tracer (HEI-T) cartridge is a Navy qualified	tactical cartridge con rcussion primer. The	onsisting of a steel projectile body assembly crimped into an aluminum cartridge case, ne MK266 cartridges are packed 30 cartridges per M592 container. This item is code

LI ER8120 - CTG, 30MM, ALL TYPES Army

Exhibit P-40, Budget Line Item Justification: PB 2017 Army

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:

2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/

ER8120 / CTG, 30MM, ALL TYPES

Medium Cal Ammunition

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

ID Code (A=Service Ready, B=Not Service Ready): Line Item MDAP/MAIS Code: N/A

Item MDAP/MAIS Code(s): N/A

	Exhibits Schedule		,	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
P-5	E06000 / CTG 30MM DUMMY M848 [B133]		Α	41,700 / 2.666	- / -	24,738 / 0.637	- / -	- / -	- / -
P-5	E07306 / CTG, 30MM, TP-T, Mk239, single		В	- / -	- / -	- / -	55,191 / 4.000	- / -	55,191 / 4.000
P-5	E07406 / CTG, 30mm Hi Expl Incendry-T(HEI-T), Mk238	P-5a, P-21	В	- / -	- / -	- / -	48,439 / 6.000	- / -	48,439 / 6.000
P-5	E09191 / CTG, 30MM, TPFSDS-T, Mk317 (sabot trnr), single		В	- / -	- / -	- / -	13,914 / 2.000	- / -	13,914 / 2.000
P-5	E09292 / CTG, 30MM, APFSDS-T, Mk258, single	P-5a, P-21	В	- / -	- / -	- / -	19,560 / 13.000	- / -	19,560 / 13.000
P-5	E09900 / CTG 30MM HEDP M789 [B129]	P-5a, P-21	Α	1,921,290K / 884.867	765,112 / 65.652	77,568 / 10.033	- / -	170,138 / 20.000	170,138 / 20.000
P-5	E10100 / CTG 30MM TP M788 [B118]	P-5a, P-21	Α	948,372K / 320.496	1,096,218 / 22.015	1,027,226 / 23.660	916,650 / 22.000	- / -	916,650 / 22.000
P-40	Total Gross/Weapon System Cost			- / 1,208.029	- / 87.667	- / 34.330	- / 47.000	- / 20.000	- / 67.000

\*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 2017 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.

FY 2017 OCO request supports procurement of critical Army munitions consumed in support of deployed units' ongoing military operations

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 2017 Base procurement dollars in the amount of \$47.000 million supports the procurement of 1.054 million cartridges.

The FY 2017 OCO procurement dollars in the amount of \$20,000 million supports the procurement of .170 million cartridges.

(E06000) CTG,30MM DUMMY M848 - This is a training unique item not used in combat. The procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1991

(E09900) CTG, 30mm HEDP M789 - This is a training standard item used in both training and combat. Funds are required to replenish munitions expended in combat operations by Apache helicopters in OFS-Afghanistan theater. The FY 2017 procurement request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. The FY 2017 OCO dollars in the amount of \$20.000 million supports the procurement of .170 million M789 cartridges.

TYPE CLASSIFICATION DATE: 1962

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LI ER8120 - CTG, 30MM, ALL TYPES Army

UI	NCLASSIFIED	
Exhibit P-40, Budget Line Item Justification: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Sm. Medium Cal Ammunition	P-1 Line Item N ER8120 / CTG,	umber / Title: 30MM, ALL TYPES
ID Code (A=Service Ready, B=Not Service Ready):  Program Elements for Co	ode B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A Item MDAP/MAIS Code(s): N/A		
(E10100) CTG, 30mm TP M788 - This is a training unique item not used in combat. The FY 2017 procurement goals. FY 2017 procurement dollars in the amount of \$22.000 million supports the procurement goals.		,
TYPE CLASSIFICATION DATE: 1982		
(E09191) The 30x173mm MK317 - This is a training unique item not used in combat. The FY 201 2017 procurement dollars in the amount of \$2.000 million supports the procurement of .014 million		ning and builds a depot level in accordance with the Army's procurement goals. FY
TYPE CLASSIFICATION DATE: PENDING		
(E07306) The 30x173mm MK239 - This is a training unique item not used in combat. The FY 201 2017 procurement dollars in the amount of \$4.000 million supports the procurement of .055 million.		ning and builds a depot level in accordance with the Army's procurement goals. FY
TYPE CLASSIFICATION DATE: PENDING		
(E09292) The 30x173mm MK258 - This is a training standard item used in both training and com Army's procurement goals. FY 2017 procurement dollars in the amount of \$13.000 million support		,
TYPE CLASSIFICATION DATE: PENDING		
(E07406) The 30x173mm MK266 - This is a training standard item used in both training and com Army's procurement goals. FY 2017 procurement dollars in the amount of \$6.000 million supports		
TYPE CLASSIFICATION DATE: PENDING		

LI ER8120 - CTG, 30MM, ALL TYPES Army

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Exhibit P-5, Cost Analysis: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A / 01 / 30

P-1 Line Item Number / Title:
ER8120 / CTG, 30MM, ALL TYPES

[B133]

Date: February 2016

Item Number / Title [DODIC]:
E06000 / CTG 30MM DUMMY M848
[B133]

ID Code (A=Service Ready, B=Not Service Ready): A		N	IDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	41,700	-	24,738	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2.666	-	0.637	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2.666	-	0.637	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2.666	-	0.637	-	-	-
(The following Resource Summary rows are for information	onal purposes only. The cor	responding budget reques	sts are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	25.75	-	-	-

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

	_		t bo ondot o										1					
	Pi	rior Years	3		FY 2015			FY 2016		FY 2017 Base			FY 2017 OCO			F	/ 2017 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Complete Round	57.12	41,700	2.382	-	-	-	24.58	24,738	0.608	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	2.382	-	-	-	-	-	0.608	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	2.382	-	-	-	-	-	0.608	-	-	-	-	-	-	-	-	-
Support - Production Enginee	ering Cost																	
Production Engineering	-	-	0.280	-	-	-	-	-	0.025	-	-	-	-	-	-	-	-	-
Subtotal: Support - Production Engineering Cost	-	-	0.280	-	-	-	-	-	0.025	-	-	-	-	-	-	-	-	-
Support - Quality Assurance 0	Cost																	
Quality Assurance	-	-	0.004	-	-	-	-	-	0.004	-	-	-	-	-	-	-	-	-
Subtotal: Support - Quality Assurance Cost	-	-	0.004	-	-	-	-	-	0.004	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	41,700	2.666	-	-	-	25.75	24,738	0.637	-	-	-	-	-	-	-	-	-

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Date: February 2016 Exhibit P-5, Cost Analysis: PB 2017 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2034A / 01 / 30 ER8120 / CTG, 30MM, ALL TYPES E07306 / CTG, 30MM, TP-T, Mk239, single

ID Code (A=Service Ready, B=Not Service Ready) : B		M				
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	55,191	-	55,191
Gross/Weapon System Cost (\$ in Millions)	-	-	-	4.000	-	4.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	4.000	-	4.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	4.000	-	4.000
(The following Resource Summary rows are for information	onal purposes only. The cor	responding budget request	s are documented elsewhe	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	72.48	-	72.48

Note: Subtotals or Totals in this Exhibit D.F. may not be expected our sum exactly due to rounding

	P	rior Years	3		FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			' 2017 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	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	-	-	-	-	-	-	-	-	-	60.00	55,191	3.311	-	-	-	60.00	55,191	3.31
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	3.311	-	-	-	-	-	3.31
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	3.311	-	-	-	-	-	3.31
Support - Production Enginee	ering Cost																	
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.679	-	-	-	-	-	0.679
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	0.679	-	-	-	-	-	0.679
Support - Quality Assurance	Cost																	
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.010
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	72.48	55,191	4.000	-	-	-	72.48	55,191	4.000

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LI ER8120 - CTG, 30MM, ALL TYPES Army

Date: February 2016 Exhibit P-5, Cost Analysis: PB 2017 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2034A / 01 / 30 ER8120 / CTG, 30MM, ALL TYPES E07406 / CTG, 30mm Hi Expl Incendry-T(HEI-T), Mk238

MDAP/MAIS Code:

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	48,439	-	48,439
Gross/Weapon System Cost (\$ in Millions)	-	-	-	6.000	-	6.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	6.000	-	6.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	6.000	-	6.000
(The following Resource Summary rows are for informat	ional purposes only. The co	rresponding budget request	s are documented elsewhe	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	123.87	-	123.87

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

	F	Prior Years	S		FY 2015			FY 2016		FY 2017 Base			FY	/ 2017 OC	0	FY	/ 2017 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	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 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	108.00	48,439	5.231	-	-	-	108.00	48,439	5.23
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	5.231	-	-	-	-	-	5.23
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	5.231	-	-	-	-	-	5.23
Support Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	-	-	-	0.759	-	-	-	-	-	0.75
QUALITY ASSURANCE	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.01
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	0.769	-	-	-	-	-	0.70
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	123.87	48,439	6.000	-	-	-	123.87	48,439	6.00

<sup>(†)</sup> indicates the presence of a P-5a

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

**UNCLASSIFIED** 

Exhibit P-5a, Procurement History and Planning: PB 2017	chibit P-5a, Procurement History and Planning: PB 2017 Army									
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E07406 / CTG, 30mm Hi Expl Incendry- T(HEI-T), Mk238								

Cost Elements	0 C 0	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?	RFP Issue Date
COMPLETE ROUND <sup>(†)</sup>		2017	TO BE SLECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	48,439	108.00	N	

<sup>(†)</sup> indicates the presence of a P-21

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Ext	nibit	P-21	, Pro	ducti	ion Sc	hedul	e: PE	3 201	7 Arm	ıy														Date	: Feb	ruary	2016				
	-			Budge	et Acti	vity /	Budg	jet Sı	ıb Ac	tivity	:				<b>Num</b> 6, 30M									E074		CTG,	30mr	<b>[DOD</b> n Hi E	OIC]: Expl In	cend	ry-
					:)							Fiscal Y	ear 2017											Fiscal Ye	ear 2018						B A
	_	Cost Elements												С	alendar `	Year 201	7								Calen	dar Year	2018				Ļ
O F C F O #	2	Y SER	RVICE		TO 1 OCT	DUE AS OF		0	E	J A N	F E B	M A R	A P R	M A Y	J U N	J U	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	A N C E
COM	IPLET	E ROUNE	)					'	,										,							·	·	,			
1	201	17 ARM	Υ	48.439	-	48.439						Α -	-	-	-	-	-	-	-	-	-	-	-	4.035	4.035	4.035	4.035	4.035	4.035	4.035	20.194
		•					0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J J	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	N N	J U L	A U G	S E P	

Ex	nibit	P-21, Pro	oduct	ion Sc	hedul	le: PE	3 2017	7 Arm	ıy														Date	: Feb	oruary	2016	;			
_	-	riation / 1 01 / 30	Budg	et Acti	vity /	Budg	jet Su	ıb Ac	tivity	:		<b>Line</b> 8120 <i>I</i>		-									E07	406 <i>l</i>				DIC]: Expl Ir	ncend	lry-
		Cost E (Units in 7	lements housands	s)							Fiscal Y	ear 2019											Fiscal Y	ear 2020						В
	_			ACCEPT									С	alendar	Year 201	9								Calen	dar Year	2020				, <u>i</u>
0 0	= ?	SERVICE	PROC QTY	PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	N C E
COI	IPLETE	ROUND		'			,		,												'			,						
	1 2017	ARMY	48.439	28.245	20.194	4.035	4.035	4.035	4.035	4.054																				-
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J 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 J	A U G	S E P	

Exhibit P-21, Production Schedule: PB 2017 ArmyDate: February 2016Appropriation / Budget Activity / Budget Sub Activity:<br/>2034A / 01 / 30P-1 Line Item Number / Title:<br/>ER8120 / CTG, 30MM, ALL TYPESItem Number / Title [DODIC]:<br/>E07406 / CTG, 30mm Hi Expl Incendry-<br/>T(HEI-T), Mk238

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
MF	8					lni	tial			Red	rder	
Ret	Manufacturer Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	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
	TO BE SLECTED - TBS01	68,000	85,000	150,000	6	6	12	18	6	6	12	18

<sup>&</sup>quot;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 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 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A / 01 / 30

P-1 Line Item Number / Title:
ER8120 / CTG, 30MM, ALL TYPES

ER8120 / CTG, 30MM, ALL TYPES

Date: February 2016

Item Number / Title [DODIC]:
E09191 / CTG, 30MM, TPFSDS-T,
Mk317 (sabot trnr), single

MDAP/MAIS Code:

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	13,914	-	13,914
Gross/Weapon System Cost (\$ in Millions)	-	-	-	2.000	-	2.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	2.000	-	2.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	2.000	-	2.000
(The following Resource Summary rows are for informati	onal purposes only. The cor	responding budget request	s are documented elsewhe	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	143.74	-	143.74

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

	P	rior Years	S		FY 2015			FY 2016		F۱	/ 2017 Bas	se	F	/ 2017 OC	0	FY	2017 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Load Assembly Pack (LAP)	-	-	-	-	-	-	-	-	-	89.00	13,914	1.238	-	-	-	89.00	13,914	1.23
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	1.238	-	-	-	-	-	1.23
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	1.238	-	-	-	-	-	1.23
Support - Production Enginee	ring Cost																	
Production Engineering	-	-	-	-	-	-	-	-	-	-	-	0.752	-	-	-	-	-	0.75
Subtotal: Support - Production Engineering Cost	-	-	-	-	-	-	-	-	-	-	-	0.752	-	-	-	-	-	0.75
Support - Quality Assurance (	Cost						·	,	,								<u> </u>	
Quality Assurance	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.01
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.01
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	143.74	13,914	2.000	-	-	-	143.74	13,914	2.00

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LI ER8120 - CTG, 30MM, ALL TYPES Army

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

Date: February 2016 Exhibit P-5, Cost Analysis: PB 2017 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2034A / 01 / 30 ER8120 / CTG, 30MM, ALL TYPES E09292 / CTG, 30MM, APFSDS-T, Mk258, single

ID Code (A=Service Ready, B=Not Service Ready) : B		М	DAP/MAIS Code:			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	19,560	-	19,560
Gross/Weapon System Cost (\$ in Millions)	-	-	-	13.000	-	13.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	13.000	-	13.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	13.000	-	13.000
(The following Resource Summary rows are for informat	ional purposes only. The cor	responding budget request	s are documented elsewhe	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	664.62	-	664.62

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

	F	Prior Years	s		FY 2015			FY 2016		F۱	' 2017 Bas	e	F	/ 2017 OC	0	FY	' 2017 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)															
Hardware Cost				'											,	'	'	
Recurring Cost																		
COMPLETE ROUND <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	611.00	19,560	11.951	-	-	-	611.00	19,560	11.95
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	11.951	-	-	-	-	-	11.95
Subtotal: Hardware Cost	-	-	-	-	-	-	-	-	-	-	-	11.951	-	-	-	-	-	11.95
Support Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	-	-	-	1.039	-	-	-	-	-	1.03
QUALITY ASSURANCE	-	-	-	-	-	-	-	-	-	-	-	0.010	-	-	-	-	-	0.01
Subtotal: Support Cost	-	-	-	-	-	-	-	-	-	-	-	1.049	-	-	-	-	-	1.04
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	664.62	19,560	13.000	-	-	-	664.62	19,560	13.00

<sup>(†)</sup> indicates the presence of a P-5a

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LI ER8120 - CTG, 30MM, ALL TYPES Army

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Exhibit P-5a, Procurement History and Planning: PB 2017	Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E09292 / CTG, 30MM, APFSDS-T, Mk258, single

Cost Elements	0 C 0	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revision Available	RFP Issue Date
COMPLETE ROUND <sup>(†)</sup>		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	19,560	611.00	N		

<sup>(†)</sup> indicates the presence of a P-21

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LI ER8120 - CTG, 30MM, ALL TYPES Army

Exh	ibi	t P	-21, Pr	oduct	ion Sc	hedu	le: Pi	3 201	7 Arm	ıy														Date	: Feb	ruary	2016	1			
			<b>ation</b> / 1 / 30	Budg	et Acti	ivity /	Bud	get Sı	ub Ac	tivity	:					ber / //M, A		/PES						E092		CTG,		[DOD M, API		β-T,	
				lements Thousand	s)							Fiscal Y	ear 2017											Fiscal Ye	ar 2018						В
														C	Calendar	Year 201	17								Calen	dar Year	2018				Ë
O F C R O #	1	·Y	(Units in Thousands)    ACCEPT							J A N	F E B	M A R	A P R	M A Y	J U	J J	A U G	S E P	0 C T	N 0 N	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J U	A U G	S E P	A N C E
COM	IPLE	TE R	OUND		'	<u>'</u>								,							,										
1	20	)17	ARMY	19.560	-	19.560		_				Α -	-	-	-	-	-	-	-	-	-	-	-	1.630	1.630	1.630	1.630	1.630	1.630	1.630	8.150
			ARMY 19.560 - 19.560 OND COET VC								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	N U	J U L	A U G	S E P	

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LI ER8120 - CTG, 30MM, ALL TYPES Army

Ex	hibit	P-21, Pr	oduct	ion Sc	hedu	le: PE	3 2017	7 Arm	у														Date	: Feb	oruary	2016	i			
_		<b>riation /</b> 01 / 30	Budg	et Acti	vity /	Budg	jet Su	ıb Ac	tivity			<b>Line</b> 8120 <i>I</i>											E09		CTG,	Title 30MN		DIC]: PFSDS	 }-Т,	
		Cost E (Units in	lements Thousand	s)							Fiscal Y	ear 2019											Fiscal Y	ear 2020						В
				ACCEPT									С	alendar	Year 201	9								Calen	dar Year	2020				j È
0 C 0		SERVICE	PROC QTY	PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J J	A U G	S E P	100	N O V	D E C	N V C	F E B	M A R	A P R	M A Y	N U	r c c	A U G	S E P	A N C E
CC	MPLETE	ROUND															,							,						
	1 201	7 ARMY	19.560	11.410	8.150	1.630	1.630	1.630	1.630	1.630		-																		-
			F E B	M A R	A P R	M A Y	J U	J 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	A U G	S E P								

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LI ER8120 - CTG, 30MM, ALL TYPES Army

Exhibit P-21, Production Schedule: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2034A / 01 / 30

P-1 Line Item Number / Title:

ER8120 / CTG, 30MM, ALL TYPES

Budget Sub Activity:

ER8120 / CTG, 30MM, ALL TYPES

Budget Activity / Budget Sub Activity:

ER8120 / CTG, 30MM, ALL TYPES

Budget Activity / Budget Sub Activity:

ER8120 / CTG, 30MM, ALL TYPES

		Product	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
MFF						lr	nitial			Red	rder	
Ref		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	24,000	30,000	65,000	6	(	6 12	18	6	6	12	18

<sup>&</sup>quot;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 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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Date: February 2016 Exhibit P-5, Cost Analysis: PB 2017 Army Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Item Number / Title [DODIC]: 2034A / 01 / 30 ER8120 / CTG, 30MM, ALL TYPES E09900 / CTG 30MM HEDP M789 [B129] MDAP/MAIS Code:

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	1,921,290K	765,112	77,568	-	170,138	170,138
Gross/Weapon System Cost (\$ in Millions)	884.867	65.652	10.033	-	20.000	20.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	884.867	65.652	10.033	-	20.000	20.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	=
Total Obligation Authority (\$ in Millions)	884.867	65.652	10.033	-	20.000	20.000
(The following Resource Summary rows are for information	onal purposes only. The cor	responding budget request	s are documented elsewher	re.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	0.46	85.81	129.34	-	117.55	117.55

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

					<u> </u>													
	F	Prior Years	3		FY 2015			FY 2016		F	/ 2017 Bas	se	F	/ 2017 OC	0	F۱	/ 2017 Tot	al
Cost Elements	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)									
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND <sup>(†)</sup>	0.46	1,921,290K	884.867	82.19	765,112	62.887	105.31	77,568	8.169	-	-	-	108.86	170,138	18.521	108.86	170,138	18.521
Subtotal: Recurring Cost	-	-	883.793	-	-	62.885	-	-	8.169	-	-	-	-	-	18.521	-	-	18.521
Subtotal: Hardware Cost	-	-	883.793	-	-	62.885	-	-	8.169	-	-	-	-	-	18.521	-	-	18.521
Support - Production Enginee	ring Cost																	
Production Engineering	-	-	1.074	-	-	2.757	-	-	1.853	-	-	-	-	-	1.468	-	-	1.468
Subtotal: Support - Production Engineering Cost	-	-	1.074	-	-	2.757	-	-	1.853	-	-	-	-	-	1.468	-	-	1.468
Support - Quality Assurance C	Cost							·										
Quality Assurance	-	-	-	-	-	0.010	-	-	0.011	-	-	-	-	-	0.011	-	-	0.011
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	0.010	-	-	0.011	-	-	-	-	-	0.011	-	-	0.011
Gross/Weapon System Cost	0.46	1,921,290K	884.867	85.81	765,112	65.652	129.34	77,568	10.033	-	-	-	117.55	170,138	20.000	117.55	170,138	20.000

<sup>(†)</sup> indicates the presence of a P-5a

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

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LI ER8120 - CTG, 30MM, ALL TYPES Army

Exhibit P-5a, Procurement History and Planning: PB 2017	Army	Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2034A / 01 / 30	ER8120 / CTG, 30MM, ALL TYPES	E09900 / CTG 30MM HEDP M789 [B129]

Cost Elements	0 0 0	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 <sup>(†)</sup>		2015	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH, MN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Nov 2016	382,556	82.20	Y		
COMPLETE ROUND(†)		2015	GENERAL DYNAMICS ORD & TAC / MARION, IL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Oct 2016	382,556	82.20	Y		
COMPLETE ROUND <sup>(†)</sup>		2016	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Aug 2017	38,784	105.31	Y		
COMPLETE ROUND <sup>(†)</sup>		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Aug 2017	38,784	105.31	Y		
COMPLETE ROUND <sup>(†)</sup>	<b>✓</b>	2017	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	85,069	108.86	Y		
COMPLETE ROUND(†)	1	2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	85,069	108.86	Y		

<sup>(†)</sup> indicates the presence of a P-21

#### Remarks:

This item is part of a combined 20mm, 25mm, 30mm contract FY 2013 - FY 2017. Quantity split is determined in year of execution between two contractors: General Dynamics Ordnance and Tactical Systems, Marion, IL and Alliant Techsystems Operations, Plymouth, MN. This is a training standard item used in training and combat. FY 2015 and FY 2016 procurements support annual training and build a war reserve inventory in accordance with the Army's procurement goals. Type Classification Date: 1962

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Ext	ibit	P-2	21, Pro	oducti	on Sc	hedul	e: PE	3 201	7 Arm	ıy														Date	: Feb	ruary	2016	i			
			tion /     / 30	Budge	t Acti	vity /	Budg	jet Si	ub Ac	tivity	<b>'</b> :				-	nber / MM, /		YPES								ber /				89 [I	B129
			Cost E	ements housands	)							Fiscal `	Year 201	5										Fiscal Ye	ear 2016						В
			-		ACCEPT				_						Calenda	r Year 20	15								Calen	dar Year	2016				î
O F C F O #	:	.	SERVICE	PROC QTY	PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N U	J U L	A U G	S E P	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J J	A U G	S E P	A N C E
CON	PLETE	RO	UND								<u> </u>							<u>'</u>													
Prior	Years	Deliv	eries: 1921	290000																											
1	201	5 A	RMY	382.556	-	382.556					_	Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	382.5
2		_	RMY	382.556	-	382.556						Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	382.5
3	+		RMY	38.784	-	38.784																		Α -	-	-	-	-	-	-	38.78
4	+	_	RMY	38.784	-	38.784																		Α -	-	-	-	-	-	-	38.78
<b>√</b> 3	+	-	RMY	85.069	-	85.069																									85.06
<b>√</b> 4	201	7 A	RMY	85.069	-	85.069			1	1			1	_	1	_		1			1										85.06
							O C T	N O V	E C	J A N	F E B	M A R	P R	M A Y	N U	U L	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	N U J	U U	A U G	S E P	

M D F FY COMPLETE RO	01 / 30 Cost El	ements housands)	ACCEPT PRIOR TO 1	BAL	Budg	jet Sı	ıb Ac	tivity				Item / CTG	Num		Title:			-				14	Mum	hor /	Titlo	[DOD	IC1·	
) F ; R ) # FY	(Units in T	housands)	PRIOR										ı, JUIV	IM, Al	LL TY	'PES						Item E099						89 [E
) F ; R ) # FY	SEDVICE		PRIOR							Fiscal Y	ear 2017											Fiscal Ye	ar 2018					
) F ; R ) # FY	SEDVICE	BBOC										С	alendar	ear 201	7								Calend	lar Year	2018			
COMPLETE RO	SERVICE	QTY	OCT 2016	AS OF 1 OCT	O C T	N O V	D E C	J A N	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
	ROUND													'														
Prior Years Del																												
		382.556	-	382.556		10.071				40.476																		
2 2015		382.556	-	382.556		25.000		65.000		35.484																		
3 2016 4 2016	ARMY	38.784 38.784	-	38.784 38.784	-	-	-	-	-	-	-	-	-	-	6.464 6.464	6.464 6.464	6.464	6.464 6.464	6.464	6.464								
3 2017		85.069		85.069	-	_	-	-		A -	-	-		-	0.404	0.404	0.404	0.404	0.404	0.404	-	7.090	7.089	7.089	7.089	7.089	7.089	7.089
4 2017		85.069	-	85.069						Α -	-	-	-	-	-	-	-	-	-	-	-	7.090	7.089	7.089	7.089	7.089	7.089	7.089
	1				O C T	N O V	D E C	J A N	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

LI ER8120 - CTG, 30MM, ALL TYPES Army

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												ICLA									1						
hibit P-21, Pr	oducti	on Sc	hedul	<b>e</b> : PB	2017	7 Army	/														Date	: Feb	oruary	2016	3 		
<b>propriation</b> / 34A / 01 / 30	Budge	et Activ	vity /	Budge	et Su	b Act	ivity:			<b>Line</b> 8120					/PES						Item E099	<b>Nun</b> 900 /	nber / CTG	Title 30MN	<b>[DOI</b> J HEI	<b>DIC]</b> : DP M	789 [E
Cost I (Units in	Elements Thousands	)							Fiscal Y	ear 2019											Fiscal Y	ear 2020					
		ACCEPT									C	Calendar	Year 20	19								Caler	ndar Year	r 2020			
M F SERVICE	PROC QTY	PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	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
MPLETE ROUND																											
or Years Deliveries: 192	21290000																										
1 2015 ARMY	382.556	382.556	-																								
2 2015 ARMY	382.556	382.556	-	1																							
3 2016 ARMY	38.784	38.784	-																								
4 2016 ARMY	38.784	38.784	-																								
3 2017 ARMY	85.069	49.624	35.445	7.089	7.089	7.089	7.089	7.089																			
4 2017 ARMY	85.069	49.624	35.445	7.089	7.089	7.089	7.089	7.089																			
				0	N O	D E	J A	F E	M A	A P	M A	J	J	A U	S E	0	N O	D E	J A	F E	M A	A P	M A	J J	J	A U	S E

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Exhibit P-21, Production Schedule: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
2034A / 01 / 30	ER8120 / CTG, 30MM, ALL TYPES	E09900 / CTG 30MM HEDP M789 [B129]

		Produc	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
MFR						Ir	itial			Red	order	
Ref #	Manufacturer Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	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 TECHSYS ARMAMENT SYS - PLYMOUTH, MN	68,000	85,000	150,000	6	(	3 12	18	(	6	12	18
2	GENERAL DYNAMICS ORD & TAC - MARION, IL	24,000	30,000	65,000	6	(	12	18	(	6	12	18
3	TO BE SELECTED - TBS02	24,000	30,000	50,000	6	(	12	18	(	6	12	18
4	TO BE SELECTED - TBS01	68,000	85,000	150,000	6	(	5 12	18	(	6	12	18

<sup>&</sup>quot;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 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 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2034A / 01 / 30

Date: February 2016

Item Number / Title [DODIC]:
ER8120 / CTG, 30MM, ALL TYPES

E10100 / CTG 30MM TP M788 [B118]

ID Code (A=Service Ready, B=Not Service Ready): A		МС	AP/MAIS Code:			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	948,372K	1,096,218	1,027,226	916,650	-	916,650
Gross/Weapon System Cost (\$ in Millions)	320.496	22.015	23.660	22.000	-	22.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	320.496	22.015	23.660	22.000	-	22.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	=	-	-
Total Obligation Authority (\$ in Millions)	320.496	22.015	23.660	22.000	-	22.000
(The following Resource Summary rows are for information	onal purposes only. The cort	responding budget requests	s are documented elsewher	e.)		
Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	0.34	20.08	23.03	24.00	-	24.00

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

	P	rior Years	i		FY 2015			FY 2016		F۱	' 2017 Ba	se	F١	/ 2017 OC	0	FY	' 2017 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
COMPLETE ROUND <sup>(†)</sup>	0.33	948,372K	312.963	18.54	1,096,218	20.324	21.41	1,027,226	21.993	21.98	916,650	20.148	-	-	-	21.98	916,650	20.14
Subtotal: Recurring Cost	-	-	312.963	-	-	20.324	-	-	21.993	-	-	20.148	-	-	-	-	-	20.14
Subtotal: Hardware Cost	-	-	312.963	-	-	20.324	-	-	21.993	-	-	20.148	-	-	-	-	-	20.14
Support - Acceptance Testing	Cost																	
First Article Test	-	-	-	-	-	-	-	-	-	-	-	0.211	-	-	-	-	-	0.21
Subtotal: Support - Acceptance Testing Cost	-	-	-	-	-	-	-	-	-	-	-	0.211	-	-	-	-	-	0.21
Support - Production Enginee	ering Cost																	
Production Engineering	-	-	7.533	-	-	1.581	-	-	1.653	-	-	1.625	-	-	-	-	-	1.62
Subtotal: Support - Production Engineering Cost	-	-	7.533	-	-	1.581	-		1.653	-	-	1.625	-	-	-	-	-	1.62
Support - Quality Assurance 0	Cost																	
Quality Assurance	-	-	-	-	-	0.010	-	-	0.014	-	-	0.016	-	-	-	-	-	0.01
Subtotal: Support - Quality Assurance Cost	-	-	-	-	-	0.010	-	-	0.014	-	-	0.016	-	-	-	-	-	0.01
Support - Study & Analysis Co	ost		,		,		,			,			,		,	,		
Study & Analysis	-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Study & Analysis Cost	-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	0.34	948,372K	320.496	20.08	1,096,218	22.015	23.03	1,027,226	23.660	24.00	916,650	22.000	-	-	-	24.00	916,650	22.00

LI ER8120 - CTG, 30MM, ALL TYPES Army

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Exhibit P-5, Cost Analysis: PB 2017 Army		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 2034A / 01 / 30	P-1 Line Item Number / Title: ER8120 / CTG, 30MM, ALL TYPES	Item Number / Title [DODIC]: E10100 / CTG 30MM TP M788 [B118]
ID Code (A=Service Ready, B=Not Service Ready): A	MDAP/MAIS Code:	,
2034A / 01 / 30	ER8120 / CTG, 30MM, ALL TYPES	E10100 / CTG 30MM TP M788 [B118]

LI ER8120 - CTG, 30MM, ALL TYPES Army

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Exhibit P-5a, Procurement History and Planning: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2034A / 01 / 30

P-1 Line Item Number / Title:

ER8120 / CTG, 30MM, ALL TYPES

Date: February 2016

Item Number / Title [DODIC]:

E10100 / CTG 30MM TP M788 [B118]

					•								
Cost Elements	0 0	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 <sup>(†)</sup>		2015	ALLIANT TECHSYS ARMAMENT SYS / PLYMOUTH, MN	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Nov 2015	438,487	18.54	Υ			
COMPLETE ROUND <sup>(†)</sup>		2015	GENERAL DYNAMICS ORD & TAC / MARION, IL	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2015	Nov 2015	657,731	18.54	Y			
COMPLETE ROUND <sup>(†)</sup>		2016	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2017	513,613	21.41	Y			
COMPLETE ROUND <sup>(†)</sup>		2016	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2016	Mar 2017	513,613	21.41	Y			
COMPLETE ROUND <sup>(†)</sup>		2017	TO BE SELECTED / TBS02	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	458,325	21.98	Y			
COMPLETE ROUND <sup>(†)</sup>		2017	TO BE SELECTED / TBS01	C / FFP	ROCK ISLAND ARSENAL, IL	Mar 2017	Mar 2018	458,325	21.98	Y			

<sup>(†)</sup> indicates the presence of a P-21

#### Remarks:

This item is part of a combined 20mm, 25mm, 30mm contract FY 2013 - FY 2017. Quantity split is determined in year of execution between two contractors: General Dynamics Ordnance and Tactical Systems, Marion, IL and Alliant Techsystems Operations, Plymouth, MN. This is a training unique item not used in combat. FY 2015, FY 2016 and FY 2017 procurements support annual training and build at depot level in accordance with the Army's procurement goals. Type Classification Date: 1982

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M O F C R	Cost Ele (Units in Th	ments ousands)	ACCEPT PRIOR	vity / I	Budg	et Su	ıb Ac	tivity	:		Line 8120											Item	Num	ber /	Title	[DOD	IC]:	
M O F C R O # FY S	(Units in Th	ousands)									0120	1010	s, 30N	ИM, A	TL L	'PES						E1010	00/					[B11
O F C R O # FY S					ands) Fiscal Year 2015 Fiscal Year 2016																							
O F C R O # FY S			FRIOR	BAL								(	Calendar	Year 20	15								Calen	dar Year	2016			
COMPLETE ROL	SERVICE	PROC QTY	TO 1 OCT 2014	DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	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	J U L	A U G	S E P
	UND				,															,								
Prior Years Delive	veries: 94837	2000																										
1 2015 AF		438.487	-	438.487						Α -	-	-	-	-	-	-	-	51.253 1		_	110.000							
2 2015 AF		657.731	-	657.731						Α -	-	-	-	-	-	-	-	24.725 20	00.000 2	200.000	133.006	100.000						
3 2016 AF		513.613	-	513.613																		A -	-	-	-	-	-	-
4 2016 AF		513.613	-	513.613																		A -	-	-	-	-	-	-
3 2017 AF		458.325	-	458.325																								
4 2017 AF	ARMY	458.325	-	458.325	•											•	_				-		•				•	
					O C T	N O V	D E C	A N	F E B	M A R	P R	M A Y	N N	U L	U G	S E P	O C T	N O V	D E C	A N	F E B	M A R	A P R	M A Y	N N	n n	A U G	S E P

LI ER8120 - CTG, 30MM, ALL TYPES
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				Elements Thousands	5)						,	Fiscal Y	Year 2017	7					Fiscal Year 2018									ВА			
					ACCEPT									C	Calendar	Year 20	17								Calen	dar Yea	r 2018				L
0 0	R	FY	SERVICE	PROC QTY	PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	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	n n	A U G	S E P	N C E
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			iveries: 948	372000																											-
	1 2	2015	ARMY	438.487	438.487	-							-			-															-
	2 2	2015	ARMY	657.731	657.731	-																								ļ	-
	3 2	2016	ARMY	513.613	-	513.613	-	-	-	-	-	42.802	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	]						ſ	
_	_	2016		513.613	-	513.613		-	-	-	_	42.802	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801	42.801			1					-
$\rightarrow$	-	_	ARMY	458.325		458.325	_					Α -	-	-	-	-	-	-	-	-	-	-	-		38.193			38.193			_
	4 2	2017	ARMY	458.325	-	458.325						Α -	-	-	-	-	-	-	-	-	-	-	-	38.202				38.193	-		190.9
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hibit P-21, Pr	roducti	ion Sc	hedul	e: PB	201	7 Arm	ıy														Date	: Feb	oruary	2016	3			
<b>propriation</b> / 34A / 01 / 30	Budge	et Acti	vity /	Budg	et Sı	ub Ac	tivity:			<b>Line</b> 8120															<b>[DOI</b> I TP I		[B118	
	Elements Thousands	)							Fiscal Y	ear 2019											Fiscal Year 2020							
		ACCEPT									C	Calendar	Year 20	19								Caler	ndar Yea	r 2020				
M F FY SERVICE	PROC	PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J 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	
MPLETE ROUND								1																				
or Years Deliveries: 948	8372000																											
1 2015 ARMY	438.487		-																									
2 2015 ARMY	657.731	657.731	-																									
3 2016 ARMY	513.613	513.613	-																									
4 2016 ARMY	513.613		-																									
3 2017 ARMY	458.325						38.193																					
4 2017 ARMY	458.325	267.360	190.965		38.193			38.193			ī	1					1				T	1			_	î	,	
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Exhibit P-21, Production Schedule: PB 2017 Army

Appropriation / Budget Activity / Budget Sub Activity:

2034A / 01 / 30

P-1 Line Item Number / Title:
ER8120 / CTG, 30MM, ALL TYPES

Date: February 2016

Item Number / Title [DODIC]:
E10100 / CTG 30MM TP M788 [B118]

		Produc	tion Rates (Each /	Month)	Procurement Leadtime (Months)													
MFR					_	Ir	itial			Red	order							
Ref #	Manufacturer Name - Location	MSR For 2017	1-8-5 For 2017	MAX For 2017	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 TECHSYS ARMAMENT SYS - PLYMOUTH, MN	96,000	120,000	200,000	6	•	12	18	6	6	12	18						
2	GENERAL DYNAMICS ORD & TAC - MARION, IL	96,000	120,000	200,000	6	(	12	18	6	6	12	18						
3	TO BE SELECTED - TBS02	96,000	120,000	200,000	6	(	12	18	6	6	12	18						
4	TO BE SELECTED - TBS01	96,000	120,000	200,000	6	(	12	18	6	6	12	18						

<sup>&</sup>quot;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 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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