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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12: Cartridges	P-1 Line Item Number / Title: 352010 / Cartridges
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ID Code (A=Service Ready, B=Not Service Ready): A	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	Item MDAP/MAIS Code(s): N/A
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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 (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	131.189	165.073	220.237	9.830	230.067	165.132	155.714	151.848	146.807	-	1,145.830
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	131.189	165.073	220.237	9.830	230.067	165.132	155.714	151.848	146.807	-	1,145.830
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	131.189	165.073	220.237	9.830	230.067	165.132	155.714	151.848	146.807	-	1,145.830

(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:

FY2015 funding includes \$2.469M appropriated for Overseas Contingency Operations.

FY2016 funding includes \$8.371M appropriated for Overseas Contingency Operations.

The following Weapon System Cost Elements are represented in this P-1 line:

-7.62MM Ball Linked M80 (A143): The M240 Machine Gun requires this linked round, used against personnel and unarmored targets. Air Force procures this item through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.

-25MM TP, PGU-23/U (A978): 25MM PGU-23 is a target practice round used in the GAU-12/A gun systems applicable to the F-35 and AC-130/U aircraft. The round is also a kinetic energy combat round used to limit collateral damage potential. Air Force procures 25MM through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.

-20MM PGU-28A/B (AA22): Primary combat round, high explosive incendiary used with the M61 gun system applicable to the F-15 and F-16 aircraft. Designed for use against air-to-air and air-to-ground targets. Both the Air Force and Navy use this ammunition for combat only. Air Force procures 20MM through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.

-20MM Target Practice (TP) Round PGU-27A/B (AA24): This round is used for air-to-air and air-to-ground training in the M61 aircraft gun on F-15, F-16 and F-22A aircraft. The Air Force procures various links, linking methods and mixtures of target practice and target practice tracer ammunition depending on the specific requirement of the system and the training program. The cartridge is electrically primed and has no fuze. The projectile is a solid slug sized to match the ballistics of the 20MM combat round. 20MM is the primary ammunition used in Air Force and Navy aircraft gun systems to provide a training capability to complement the PGU-28 high explosive incendiary combat round and ensure training is consistent with combat operations. Air Force procures 20MM through the Army Single Manager for Conventional Ammunition (SMCA), Department of the Army and engineering support from the Navy.

-5.56MM Blue Marking Cartridge (AB09): This round is used in force-on-force training of personnel in M16A2 and M4 rifles. It consists of a plastic projectile in a brass cartridge case. Air Force procures this item through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12: Cartridges		P-1 Line Item Number / Title: 352010 / Cartridges
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
<p>-5.56MM Frangible (AA40): This is the primary training round for the Air Force and consists of a lead-free small rifle primer in a brass cartridge case. These cartridges are more environmentally friendly than standard 5.56MM ball cartridges. The case is made of reusable/recyclable brass, which is the same as 5.56MM ball ammunition. The 5.56MM frangible cartridges are used in M16-series rifles, which include M4 rifles. The Air Force procures this item through the Navy.</p> <p>-5.56MM Ball M855 (AB57): This is a lead-free primary combat round used in the M16A2 and M4 rifles, against personnel and unarmored targets. Air Force procures this item through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.</p> <p>-30MM HEI PGU-13/B Round (B104): This is a High Explosive Incendiary (HEI) round for the GAU-8/A cannon on the A-10 aircraft. It contains an explosive material for use against light armor and personnel. Air Force procures 30MM from the Single Manager for Conventional Ammunition (SMCA), Department of the Army.</p> <p>-30MM Target Practice (TP) Cartridge PGU-15/B (B116): A solid, inert projectile used to train aircrew in the use of the GAU-8/A cannon on the A-10 aircraft. The cartridge is mechanically primed and has no fuze, while the projectile is a solid slug designed to match the ballistics of high explosive incendiary and armor piercing incendiary cartridges. Air Force procures 30MM from the Single Manager for Conventional Ammunition (SMCA), Department of the Army.</p> <p>-BBU-35 Impulse Cartridge (MG62): Deploys countermeasure chaff and ignites flares from the aircraft dispenser. Applicable to the M206 Countermeasure Flare.</p> <p>-BBU-36 Impulse Cartridge (MG11): Deploys countermeasure flare on multiple aircraft. Flare applications include MJU-7, MJU-10, MJU-40, MJU-47, MJU-53 AND MJU-62.</p> <p>-BBU-48 Impulse Cartridge (SS27): Deploys countermeasure chaff from the RR-180 and RR-196 Chaff cartridges to protect aircraft from radar and radar guided weapons.</p> <p>-25MM PGU-48/B (AB98): 25MM PGU-48B formerly Frangible Armor Piercing (FAP) round to be used on GAU-22 gun used on F-35/JSF.</p> <p>-Items Less Than Five Million Dollars: All items have an annual procurement of less than \$5,000,000 and are Code A.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>Funding for this exhibit contained in PEs: 0207580F, 0207599F, 0208015F and 0208030F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12: Cartridges **P-1 Line Item Number / Title:** 352010 / Cartridges

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A **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)	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	(A143) 7.62MM BALL LINKED (M80)	P-5a	A	- / -	- / 5.000	- / 5.000	- / 5.500	- / -	- / 5.500
P-40a	(A978) CTG, 25MM, TP (PGU-23/U)			- / -	- / -	- / 2.412	- / -	- / -	- / -
P-5	(AA22) 20MM PGU-28A/B SEMI-AP, HEI	P-5a	A	- / -	- / -	- / 13.837	- / 38.859	- / 9.830	- / 48.689
P-5	(AA24) 20MM, TP PGU-27A/B	P-5a	A	- / -	- / 40.669	- / 24.348	- / 42.628	- / -	- / 42.628
P-40a	(AA40) 5.56MM, FRANGIBLE			- / -	- / 8.000	- / 8.000	- / 8.000	- / -	- / 8.000
P-40a	(AB09) 5.56 BLUE MARKING CARTRIDGE			- / -	- / 2.000	- / 2.000	- / 5.000	- / -	- / 5.000
P-5	(AB57) 5.56 CLIPPED BALL, LEAD FREE	P-5a	A	- / -	- / 7.000	- / 5.548	- / 6.000	- / -	- / 6.000
P-40a	(AB98) 25MM PGU-48/B			- / -	- / -	- / -	- / 10.000	- / -	- / 10.000
P-5	(B116) 30MM PGU-15/B, TP	P-5a	A	- / -	- / 32.250	- / 52.643	- / 41.707	- / -	- / 41.707
P-40a	(MG11) CTG IMPULSE BBU-36/B			- / -	- / -	- / 3.427	- / 5.000	- / -	- / 5.000
P-40a	(MG62) BBU-35/B IMPULSE CARTRIDGE			- / -	- / -	- / 5.000	- / 5.895	- / -	- / 5.895
P-40a	(SS-27) BBU-48/B IMPULSE CARTRIDGE			- / -	- / -	- / 4.500	- / 4.000	- / -	- / 4.000
P-40a	CARTRIDGES (ITEMS LESS THAN \$5 MILLION)			- / -	- / 36.270	- / 38.358	- / 47.648	- / -	- / 47.648
P-40	Total Gross/Weapon System Cost			- / -	- / 131.189	- / 165.073	- / 220.237	- / 9.830	- / 230.067

*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. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:

FY2017 purchases small arms ammunition for use against personnel and unarmored targets; medium caliber ammunition used in aircraft gun systems against air-to-air, air-to-ground and light armored targets, as well as certain impulse cartridges needed to eject weapons stores from bomb racks and instigate aircraft countermeasures.

The Air Force procures munitions to maintain appropriate quantities in the War Reserve Materiel (WRM) Munitions and test and training stockpiles. Active, Guard and Reserve components draw from the WRM stockpiles as required and receive test and training allocations annually based on current-year requirements.

-20MM PGU-28 (AA22): This procurement is critical to replenish WRM stockpiles. Current stockpile inventory is 24% of total inventory objective.

-20MM PGU-27 (AA24): This procurement is critical to replenish WRM stockpiles supporting pilot training and proficiency. 95% of total inventory is in the field. Depot inventory is currently insufficient to fill all current year requisitions for training. Currently expending rounds equal to purchases. All vendor deliveries in FY16 are filling requisitions, none remaining for depot. Training has been reduced to 80% of requirement due to limited inventory levels. If a 12 month production stoppage occurred (break in CY14 was 11 months) stockpile would be depleted.

-30MM PGU-15 (B116): This procurement is critical to replenish WRM stockpiles supporting pilot training and proficiency. 75% of total inventory is in the field, 25% in depot. Training has been reduced to 50% of requirement due to limited inventory levels. Currently expending rounds equal to purchases each year and still not meeting training requirements.

-25MM PGU-48/B (AB98): 25MM PGU-48B formerly Frangible Armor Piercing (FAP) round to be used on GAU-22 gun on the F-35/JSF.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12: Cartridges		P-1 Line Item Number / Title: 352010 / Cartridges
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A	
<p>-20MM PGU-39 Dummy (A931: Procurement is critical to replenish aging stockpiles of dummy ammunition rounds. Rounds are critical in providing gun system training, troubleshooting, and to verify weapon system readiness. Current inventory is severely aged (30+ years).</p> <p>-BBU-35 IMPULSE CARTRIDGE (MG62): This procurement is critical to replenish WRM stockpiles. Approximately 2M assets are expended annually and 48% of the current stockpile will expire by the end of FY18 if unused.</p> <p>-BBU-36 IMPULSE CARTRIDGE (MG11): This procurement is critical to replenish WRM stockpiles. Depot inventory is currently insufficient to fill FY16 requisitions and projected FY17 requisitions will be on hold until the next procurement is on contract and deliveries begin which projects to occur in 4QFY17.</p> <p>-BBU-48 IMPULSE CARTRIDGE (SS27): This procurement is critical to replenish WRM stockpiles. Current stockpile inventory is 67% of the total inventory requirement and is projected to drop to 60% at the end of FY17.</p>		

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Exhibit P-5, Cost Analysis: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12		P-1 Line Item Number / Title: 352010 / Cartridges
		Item Number / Title [DODIC]: - / (A143) 7.62MM BALL LINKED (M80)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	5.000	5.000	5.500	-	5.500
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	5.000	5.000	5.500	-	5.500
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	5.000	5.000	5.500	-	5.500

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 - Hardware End Item Cost																		
Recurring Cost																		
7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT ^(†)	-	-	-	0.53	8,740,286	4.632	0.53	9,041,509	4.792	0.52	10,101,923	5.253	-	-	-	0.52	10,101,923	5.253
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	4.632	-	-	4.792	-	-	5.253	-	-	-	-	-	5.253
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	4.632	-	-	4.792	-	-	5.253	-	-	-	-	-	5.253
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.287	-	-	0.205	-	-	0.229	-	-	-	-	-	0.229
ACCEPTANCE TESTING	-	-	-	-	-	0.075	-	-	-	-	-	0.013	-	-	-	-	-	0.013
QUALITY ASSURANCE	-	-	-	-	-	0.006	-	-	0.003	-	-	0.005	-	-	-	-	-	0.005
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.368	-	-	0.208	-	-	0.247	-	-	-	-	-	0.247
Gross/Weapon System Cost	-	-	-	-	-	5.000	-	-	5.000	-	-	5.500	-	-	-	-	-	5.500

Remarks:

Prices are provided by the Single Manager for Conventional Ammunition (SMCA), Department of the Army. Prices shown represent the SMCA efforts to obtain hardware, containers, pallets, straps, explosive material, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack the Air Force order. Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).

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Exhibit P-5, Cost Analysis: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Item Number / Title [DODIC]: - / (A143) 7.62MM BALL LINKED (M80)
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Item Number / Title [DODIC]: - / (A143) 7.62MM BALL LINKED (M80)
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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
7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT		2015	ALLIANT TECH (LCAAP) / INDEPENDENCE, MO	MIPR	AFLCMC Hill AFB	Mar 2015	Oct 2015	8,740,286	0.53	Y		
7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT		2016	ALLIANT TECH (LCAAP) / INDEPENDENCE, MO	MIPR	AFLCMC Hill AFB	Mar 2016	Oct 2016	9,041,509	0.53	Y		
7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT		2017	ALLIANT TECH (LCAAP) / INDEPENDENCE, MO	MIPR	AFLCMC Hill AFB	Mar 2017	Oct 2017	10,101,923	0.52	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 **P-1 Line Item Number / Title:** 352010 / Cartridges **Aggregated Items Title:** (A978) CTG, 25MM, TP (PGU-23/U)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Uncategorized																				
(A978) CTG, 25MM, TP (PGU-23/U)	A		-	-	-	-	-	-	26.22	91,991	2.412	-	-	-	-	-	-	-	-	
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	2.412	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	-	-	-	2.412	-	-	-	-	-	-	-	-	

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

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Exhibit P-5, Cost Analysis: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Item Number / Title [DODIC]: - / (AA22) 20MM PGU-28A/B SEMI-AP, HEI

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	13.837	38.859	9.830	48.689
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	13.837	38.859	9.830	48.689
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	13.837	38.859	9.830	48.689

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK ^(†)	-	-	-	-	-	-	24.95	545,558	13.612	24.54	1,534,950	37.668	24.54	388,290	9.529	24.54	1,923,240	47.196
BOX, METAL M548	-	-	-	-	-	-	40.94	1,980	0.081	43.53	5,230	0.228	43.53	1,323	0.058	43.53	6,553	0.285
PALLET MK3-0	-	-	-	-	-	-	179.56	154	0.028	176.91	240	0.042	176.91	60	0.011	176.91	300	0.053
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	13.720	-	-	37.938	-	-	9.597	-	-	47.535
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	-	-	-	13.720	-	-	37.938	-	-	9.597	-	-	47.535
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	-	-	-	0.028	-	-	0.050	-	-	0.013	-	-	0.063
FIRST ARTICLE TESTING	-	-	-	-	-	-	-	-	0.089	-	-	0.871	-	-	0.220	-	-	1.091
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	0.117	-	-	0.921	-	-	0.233	-	-	1.154
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	13.837	-	-	38.859	-	-	9.830	-	-	48.689

Remarks:

Prices are provided by the Single Manager for Conventional Ammunition (SMCA), Department of the Army. Prices shown represent the SMCA efforts to obtain containers, pallets, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack the Air Force order. Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).

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Exhibit P-5, Cost Analysis: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Item Number / Title [DODIC]: - / (AA22) 20MM PGU-28A/B SEMI-AP, HEI
ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:	
<p>Load, Assemble and Pack (LAP) costs are applicable to production, build-up and packing/boxing the ammunition rounds. The LAP quantity is the number of completed rounds to be delivered into the AF inventory.</p> <p>Packaging, Crating and Handling (PC&H) cost is associated with transferring the completed order from production to the first destination.</p> <p>(t) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12			P-1 Line Item Number / Title: 352010 / Cartridges					Item Number / Title [DODIC]: - / (AA22) 20MM PGU-28A/B SEMI-AP, HEI				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK		2016	General Dynamics & Alliant Tech / Marion, IL and Plymouth, MN	MIPR	AFLCMC Hill AFB	Mar 2016	Mar 2017	545,558	24.95	Y		
LOAD, ASSEMBLE, PACK		2017	General Dynamics & Alliant Tech / Marion, IL and Plymouth, MN	MIPR	AFLCMC Hill AFB	Mar 2017	Mar 2018	1,534,950	24.54	Y		
LOAD, ASSEMBLE, PACK	✓	2017	General Dynamics & Alliant Tech / Marion, IL and Plymouth, MN	MIPR	AFLCMC Hill AFB	Mar 2017	Mar 2018	388,290	24.54	Y		

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Exhibit P-5, Cost Analysis: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Item Number / Title [DODIC]: - / (AA24) 20MM, TP PGU-27A/B

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	40.669	24.348	42.628	-	42.628
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	40.669	24.348	42.628	-	42.628
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	40.669	24.348	42.628	-	42.628

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK ^(†)	-	-	-	12.06	3,310,000	39.919	11.16	2,131,270	23.785	11.49	3,630,100	41.710	-	-	-	11.49	3,630,100	41.710
BOX METAL M548	-	-	-	40.17	13,430	0.539	40.94	8,628	0.353	41.74	14,696	0.613	-	-	-	41.74	14,696	0.613
PALLET MK3-0	-	-	-	161.89	588	0.095	179.56	378	0.068	176.91	643	0.114	-	-	-	176.91	643	0.114
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	<i>40.553</i>	-	-	<i>24.206</i>	-	-	<i>42.437</i>	-	-	-	-	-	<i>42.437</i>
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	<i>40.553</i>	-	-	<i>24.206</i>	-	-	<i>42.437</i>	-	-	-	-	-	<i>42.437</i>
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.023	-	-	0.009	-	-	0.012	-	-	-	-	-	0.012
FIRST ARTICLE TEST	-	-	-	-	-	0.090	-	-	0.130	-	-	0.173	-	-	-	-	-	0.173
ACCEPTANCE TESTING	-	-	-	-	-	0.003	-	-	0.003	-	-	0.006	-	-	-	-	-	0.006
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	<i>0.116</i>	-	-	<i>0.142</i>	-	-	<i>0.191</i>	-	-	-	-	-	<i>0.191</i>
Gross/Weapon System Cost	-	-	-	-	-	40.669	-	-	24.348	-	-	42.628	-	-	-	-	-	42.628

Remarks:

Prices are provided by the Single Manager for Conventional Ammunition (SMCA), Department of the Army. Prices shown represent the SMCA efforts to obtain containers, pallets, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack the Air Force order. Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).

Load, Assemble and Pack (LAP) costs are applicable to production, build-up and packaging the individual round. The LAP quantity is the number of completed rounds to be delivered into the AF inventory.

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Exhibit P-5, Cost Analysis: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Item Number / Title [DODIC]: - / (AA24) 20MM, TP PGU-27A/B
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<p>Packaging, Crating and Handling (PC&H) cost is associated with transferring the completed order from production to the first destination.</p> <p>(t) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Item Number / Title [DODIC]: - / (AA24) 20MM, TP PGU-27A/B
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK		2015	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND PLYMOUTH, MN	MIPR	AFLCMC Hill AFB	Mar 2015	Mar 2016	3,310,000	12.06	Y		Jan 2015
LOAD, ASSEMBLE, PACK		2016	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND PLYMOUTH, MN	MIPR	AFLCMC Hill AFB	Mar 2016	Mar 2017	2,131,270	11.16	Y		Jan 2016
LOAD, ASSEMBLE, PACK		2017	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND PLYMOUTH, MN	MIPR	AFLCMC Hill AFB	Mar 2017	Apr 2018	3,630,100	11.49	Y		Jan 2017

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 **P-1 Line Item Number / Title:** 352010 / Cartridges **Aggregated Items Title:** (AA40) 5.56MM, FRANGIBLE

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Uncategorized																				
5.56 MM FRANG (AA40)	A		-	-	-	0.44	18,181,818	8.000	0.45	17,777,777	8.000	0.46	17,391,304	8.000	-	-	-	0.46	17,391,304	8.000
Subtotal: Uncategorized			-	-	-	-	-	8.000	-	-	8.000	-	-	8.000	-	-	-	-	-	8.000
Total			-	-	-	-	-	8.000	-	-	8.000	-	-	8.000	-	-	-	-	-	8.000

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

Remarks:

The Air Force purchases Frangible rounds through the Dept of Navy. Prices for current and/or prior fiscal years represent the Vendor's total cost for completed and boxed rounds. Prices for budget years are estimates from industry obtained from the Navy.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12					P-1 Line Item Number / Title: 352010 / Cartridges					Aggregated Items Title: (AB09) 5.56 BLUE MARKING CARTRIDGE										
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Uncategorized																				
(AB09) 5.56 BLUE MARKING CARTRIDGE	A		-	-	-	0.69	2,898,551	2.000	0.66	3,027,551	2.000	0.79	6,329,114	5.000	-	-	-	0.79	6,329,114	5.000
Subtotal: Uncategorized			-	-	-	-	-	2.000	-	-	2.000	-	-	5.000	-	-	-	-	-	5.000
Total			-	-	-	-	-	2.000	-	-	2.000	-	-	5.000	-	-	-	-	-	5.000

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

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Exhibit P-5, Cost Analysis: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Item Number / Title [DODIC]: - / (AB57) 5.56 CLIPPED BALL, LEAD FREE

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	7.000	5.548	6.000	-	6.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	7.000	5.548	6.000	-	6.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	7.000	5.548	6.000	-	6.000

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK ^(†)	-	-	-	0.39	16,357,050	6.379	0.32	15,936,000	5.100	0.30	18,456,666	5.537	-	-	-	0.30	18,456,666	5.537
BOX, METAL M2A2	-	-	-	10.38	19,628	0.204	12.49	19,131	0.239	13.06	21,480	0.281	-	-	-	13.06	21,480	0.281
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	6.583	-	-	5.338	-	-	5.818	-	-	-	-	-	5.818
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	6.583	-	-	5.338	-	-	5.818	-	-	-	-	-	5.818
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.408	-	-	0.207	-	-	0.179	-	-	-	-	-	0.179
QUALITY ASSURANCE	-	-	-	-	-	0.009	-	-	0.003	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.417	-	-	0.210	-	-	0.182	-	-	-	-	-	0.182
Gross/Weapon System Cost	-	-	-	-	-	7.000	-	-	5.548	-	-	6.000	-	-	-	-	-	6.000

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12			P-1 Line Item Number / Title: 352010 / Cartridges					Item Number / Title [DODIC]: - / (AB57) 5.56 CLIPPED BALL, LEAD FREE				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK		2015	OLIN AND ALLIANT / INDEPENDENCE, MO AND EAST ALTON, IL	MIPR	ACC-ROCK ISLAND	Mar 2015	Mar 2016	16,357,050	0.39	Y		
LOAD, ASSEMBLE, PACK		2016	OLIN AND ALLIANT / INDEPENDENCE, MO AND EAST ALTON, IL	MIPR	ACC-ROCK ISLAND	Mar 2016	Mar 2017	15,936,000	0.32	Y		Jan 2016
LOAD, ASSEMBLE, PACK		2017	OLIN AND ALLIANT / INDEPENDENCE, MO AND EAST ALTON, IL	MIPR	ACC-ROCK ISLAND	Apr 2017	Apr 2018	18,456,666	0.30	Y		Jan 2017

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Aggregated Items Title: (AB98) 25MM PGU-48/B
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Uncategorized																				
25MM PGU-48/B	A		-	-	-	-	-	-	-	-	-	207.00	48,309	10.000	-	-	-	207.00	48,309	10.000
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	-	-	-	10.000	-	-	-	-	-	10.000
Total			-	-	-	-	-	-	-	-	-	-	-	10.000	-	-	-	-	-	10.000

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

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Exhibit P-5, Cost Analysis: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12		P-1 Line Item Number / Title: 352010 / Cartridges
		Item Number / Title [DODIC]: - / (B116) 30MM PGU-15/B, TP

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	32.250	52.643	41.707	-	41.707
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	32.250	52.643	41.707	-	41.707
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	32.250	52.643	41.707	-	41.707

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

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

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

Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 - Hardware End Item Cost																		
Recurring Cost																		
LOAD,ASSEMBLE,PACK ^(†)	-	-	-	22.00	1,336,035	29.393	21.58	2,248,750	48.528	22.10	1,734,900	38.341	-	-	-	22.10	1,734,900	38.341
CONTAINER CNU-332E	-	-	-	498.00	2,405	1.198	486.75	4,047	1.970	504.45	3,122	1.575	-	-	-	504.45	3,122	1.575
TUBE AND STRAP ASSEMBLY	-	-	-	442.00	2,405	1.063	450.37	4,047	1.823	444.43	3,122	1.388	-	-	-	444.43	3,122	1.388
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	31.653	-	-	52.321	-	-	41.304	-	-	-	-	-	41.304
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	31.653	-	-	52.321	-	-	41.304	-	-	-	-	-	41.304
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.006	-	-	0.005	-	-	0.012	-	-	-	-	-	0.012
ACCEPTANCE TESTING	-	-	-	-	-	0.016	-	-	0.066	-	-	0.134	-	-	-	-	-	0.134
FIRST ARTICLE TEST	-	-	-	-	-	0.575	-	-	0.251	-	-	0.257	-	-	-	-	-	0.257
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.597	-	-	0.322	-	-	0.403	-	-	-	-	-	0.403
Gross/Weapon System Cost	-	-	-	-	-	32.250	-	-	52.643	-	-	41.707	-	-	-	-	-	41.707

Remarks:

Prices are provided by the Single Manager for Conventional Ammunition (SMCA), Department of the Army. Prices shown represent the SMCA efforts to obtain hardware, containers, pallets, straps, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack the Air Force order. Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).

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Exhibit P-5, Cost Analysis: PB 2017 Air Force		Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Item Number / Title [DODIC]: - / (B116) 30MM PGU-15/B, TP
ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:	
Load, Assemble and Pack (LAP) costs are applicable to production, build-up and packaging the individual round.		
(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Item Number / Title [DODIC]: - / (B116) 30MM PGU-15/B, TP
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD,ASSEMBLE,PACK		2015	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND MESA, AZ	MIPR	ACC-ROCK ISLAND	Mar 2015	Mar 2016	1,336,035	22.00	Y		
LOAD,ASSEMBLE,PACK		2016	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND MESA, AZ	MIPR	ACC-ROCK ISLAND	Mar 2016	Mar 2017	2,248,750	21.58	Y		
LOAD,ASSEMBLE,PACK		2017	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND MESA, AZ	MIPR	ACC-ROCK ISLAND	Mar 2017	Apr 2018	1,734,900	22.10	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 **P-1 Line Item Number / Title:** 352010 / Cartridges **Aggregated Items Title:** (MG11) CTG IMPULSE BBU-36/B

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Uncategorized																				
(MG11) CTG IMPULSE BBU-36/B	A		-	-	-	-	-	-	3.92	873,566	3.427	3.97	1,260,653	5.000	-	-	-	3.97	1,260,653	5.000
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	3.427	-	-	5.000	-	-	-	-	-	5.000
Total			-	-	-	-	-	-	-	-	3.427	-	-	5.000	-	-	-	-	-	5.000

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12						P-1 Line Item Number / Title: 352010 / Cartridges						Aggregated Items Title: (MG62) BBU-35/B IMPULSE CARTRIDGE						

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Uncategorized																				
(MG62) BBU-35/B IMPULSE CARTRIDGE	A		-	-	-	-	-	-	2.50	2,000,000	5.000	2.55	2,311,765	5.895	-	-	-	2.55	2,311,765	5.895
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	5.000	-	-	5.895	-	-	-	-	-	5.895
Total			-	-	-	-	-	-	-	-	5.000	-	-	5.895	-	-	-	-	-	5.895

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Aggregated Items Title: (SS-27) BBU-48/B IMPULSE CARTRIDGE
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Uncategorized																				
(SS-27) BBU-48/B IMPULSE CARTRIDGE	A		-	-	-	-	-	-	8.90	505,879	4.500	8.99	444,939	4.000	-	-	-	8.99	444,939	4.000
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	4.500	-	-	4.000	-	-	-	-	-	4.000
Total			-	-	-	-	-	-	-	-	4.500	-	-	4.000	-	-	-	-	-	4.000

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12							P-1 Line Item Number / Title: 352010 / Cartridges							Aggregated Items Title: CARTRIDGES (ITEMS LESS THAN \$5 MILLION)					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
AMMUNITION CARTRIDGES																				
(A014) CTG, 12 GA SHOTGUN, 7-1//2 PLASTIC	A		-	-	-	0.28	35,714	0.010	-	-	-	-	-	-	-	-	-	-	-	-
(A017) CTG, 12 GA BUCKSHOT	A		-	-	-	0.31	32,258	0.010	0.31	32,258	0.010	0.30	33,333	0.010	-	-	-	0.30	33,333	0.010
(A062) CTG, 5.56MM BALL M855 LINKED	A		-	-	-	0.30	2,500,000	0.750	-	-	-	-	-	-	-	-	-	-	-	-
(A080) CTG, 5.56MM BLANK M200	A		-	-	-	-	-	-	-	-	-	0.15	3,666,666	0.550	-	-	-	0.15	3,666,666	0.550
(A091) CTG, .22 CAL LONG RIFLE	A		-	-	-	-	-	-	0.17	117,647	0.020	0.16	1,718,750	0.275	-	-	-	0.16	1,718,750	0.275
(A131) CTG, 7.62MM BALL 4-1 LINKED	A		-	-	-	0.58	3,239,686	1.879	0.58	1,724,138	1.000	0.56	1,428,571	0.800	-	-	-	0.56	1,428,571	0.800
(A164) CTG, 7.62MM LINKED	A		-	-	-	0.53	3,545,317	1.879	0.54	3,703,704	2.000	0.52	1,923,076	1.000	-	-	-	0.52	1,923,076	1.000
(A246) CTG, .30 CAL BALL BULK	A		-	-	-	0.24	104,167	0.025	-	-	-	-	-	-	-	-	-	-	-	-
(A257) CTG, 7.62MM 9-1 DIM TRACER	A		-	-	-	-	-	-	0.53	471,698	0.250	0.53	471,698	0.250	-	-	-	0.53	471,698	0.250
(A363) 9MM BALL NATO XM882 PISTOL	A		-	-	-	0.19	10,526,316	2.000	0.20	10,000,000	2.000	0.20	5,000,000	1.000	-	-	-	0.20	5,000,000	1.000
(A404) CTG, .38 CAL SP BALL WADCUTTER	A		-	-	-	0.86	11,627	0.010	-	-	-	-	-	-	-	-	-	-	-	-
(A475) CTG, CAL .45 BALL M1911	A		-	-	-	-	-	-	-	-	-	0.65	538,461	0.350	-	-	-	0.65	538,461	0.350
(A482) CTG CAL .45 BALL WADCUTTER	A		-	-	-	0.51	392,157	0.200	0.52	480,769	0.250	0.52	480,769	0.250	-	-	-	0.52	480,769	0.250
(A483) CTG CAL .45 BALL M1911 MTCHGRD	A		-	-	-	0.34	735,294	0.250	0.34	735,294	0.250	0.38	197,368	0.075	-	-	-	0.38	197,368	0.075
(A552) CTG, .50 CAL BALL SINGLE ROUND, M33	A		-	-	-	2.26	88,496	0.200	2.05	365,854	0.750	2.05	268,292	0.550	-	-	-	2.05	268,292	0.550
(A555) CTG, CAL .50 BALL M2 LINKED	A		-	-	-	2.65	1,132,075	3.000	2.35	1,489,362	3.500	2.10	1,666,666	3.500	-	-	-	2.10	1,666,666	3.500
(A557) CTG, CAL .50 BALL/TRACER/ LINKED M2/M9	A		-	-	-	2.11	947,867	2.000	2.04	1,225,490	2.500	2.19	1,141,552	2.500	-	-	-	2.19	1,141,552	2.500
(A606) CTG, CAL.50 API MK211 MOD 0	A		-	-	-	-	-	-	10.88	91,912	1.000	10.88	68,933	0.750	-	-	-	10.88	68,933	0.750

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force																Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12						P-1 Line Item Number / Title: 352010 / Cartridges						Aggregated Items Title: CARTRIDGES (ITEMS LESS THAN \$5 MILLION)								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
(A607) CTG, .50 CAL ARMOR PIERCING INCENDIARY	A		-	-	-	7.96	276,382	2.200	8.00	125,000	1.000	7.92	94,696	0.750	-	-	-	7.92	94,696	0.750
(AA02) CTG 5.56MM AP/TR M995/M856 4-1	A		-	-	-	2.37	138,818	0.329	-	-	-	-	-	-	-	-	-	-	-	-
(AA03) CTG. 7.62 M993 AP	A		-	-	-	-	-	-	2.90	34,482	0.100	-	-	-	-	-	-	-	-	-
(AA04) CTG. 7.62MM 4 AP M9331/1TR M62 W/LK M13	A		-	-	-	-	-	-	24.01	12,494	0.300	-	-	-	-	-	-	-	-	-
(AA11) CTG. 7.62 NATO M118 SPEC BALL	A		-	-	-	0.68	1,470,588	1.000	0.67	1,492,537	1.000	0.67	746,268	0.500	-	-	-	0.67	746,268	0.500
(AA16) 9 MILLIME CARTRIDGE FRANG	A		-	-	-	0.29	8,620,689	2.500	0.30	9,126,666	2.738	0.30	9,166,667	2.750	-	-	-	0.30	9,166,667	2.750
(AA51) 12 GA NON-LETHAL PT-CONT	A		-	-	-	2.10	50,952	0.107	2.12	141,509	0.300	2.15	46,511	0.100	-	-	-	2.15	46,511	0.100
(AA52) 12 GA NON-LETHAL CROWD	A		-	-	-	2.31	103,030	0.238	-	-	-	-	-	-	-	-	-	-	-	-
(AA53) CTG 5.56 SPECIAL MK262 MOD 1	A		-	-	-	-	-	-	0.59	423,729	0.250	0.59	1,271,186	0.750	-	-	-	0.59	1,271,186	0.750
(AB10) 5.56 RED MARKING CARTRIDGES	A		-	-	-	0.71	633,802	0.450	0.70	1,428,571	1.000	0.79	1,265,822	1.000	-	-	-	0.79	1,265,822	1.000
(AB13) 9MM BLUE MARKING CARTRIDGE	A		-	-	-	0.68	735,294	0.500	0.62	1,612,903	1.000	0.64	3,906,250	2.500	-	-	-	0.64	3,906,250	2.500
(AB14) 9M RED MARKING CARTRIDGE	A		-	-	-	0.68	735,294	0.500	0.62	1,612,903	1.000	0.65	5,384,615	3.500	-	-	-	0.65	5,384,615	3.500
(AB39) 7.62MM SPECIAL BALL, LONG RANGE	A		-	-	-	32.00	62,500	2.000	32.48	61,576	2.000	-	-	-	-	-	-	-	-	-
(AB56) 5.56MM M855A1 LINKED LEAD FREE CART	A		-	-	-	0.36	2,777,778	1.000	0.36	4,166,666	1.500	0.36	2,777,777	1.000	-	-	-	0.36	2,777,777	1.000
(AB46) 5.56MM SINGLE ROUND DUMMY	A		-	-	-	0.40	312,500	0.125	-	-	-	-	-	-	-	-	-	-	-	-
(AB47) 7.62MM DUMMY	A		-	-	-	0.35	200,000	0.070	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force **Date:** February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3011F / 01 / 12

P-1 Line Item Number / Title:
352010 / Cartridges

Aggregated Items Title:
CARTRIDGES (ITEMS LESS THAN \$5 MILLION)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
(AB48) .50 CAL SINGLE DUMMY CART	A		-	-	-	0.35	114,285	0.040	-	-	-	-	-	-	-	-	-	-	-	-
(AB72) CTG, 7.62MM SINGLE ROUND BLANK (was A112)	A		-	-	-	0.36	208,333	0.075	-	-	-	0.34	294,117	0.100	-	-	-	0.34	294,117	0.100
(B519) CARTRIDGE, 40MM PRACTICE M781	A		-	-	-	4.88	409,836	2.000	-	-	-	-	-	-	-	-	-	-	-	-
(B535) 40MM SWS M583	A		-	-	-	44.54	22,451	1.000	-	-	-	-	-	-	-	-	-	-	-	-
(B542) 40 MIL CARTRIDGE HEDP	A		-	-	-	-	-	-	45.16	6,645	0.300	45.66	21,901	1.000	-	-	-	45.66	21,901	1.000
(B576) CTG, 40MM PRACTICE, LINKED, HIGH VELOCITY	A		-	-	-	18.45	108,401	2.000	19.80	101,010	2.000	19.80	101,010	2.000	-	-	-	19.80	101,010	2.000
AIR FORCE SHOOTING TEAM	A		-	-	-	-	-	0.175	-	-	-	-	-	0.140	-	-	-	-	-	0.140
(BA21) 40MM PRACTICE, DAY/ NIGHT LINKED	A		-	-	-	-	-	-	-	-	-	32.54	10,387	0.338	-	-	-	32.54	10,387	0.338
(LA51) SIMULATOR, SMALL ARMS FIRE	A		-	-	-	-	-	-	-	-	0.070	-	-	0.100	-	-	-	-	-	0.100
(LA52) SIMULATOR, SMALL ARMS FIRE	A		-	-	-	-	-	-	-	-	0.070	-	-	0.100	-	-	-	-	-	0.100
Subtotal: AMMUNITION CARTRIDGES			-	-	-	-	-	28.522	-	-	28.158	-	-	28.488	-	-	-	-	-	28.488
IMPULSE CARTRIDGES																				
(3W37) CHAFF, RR-188	A		-	-	-	-	-	-	3.33	600,600	2.000	3.67	1,008,174	3.700	-	-	-	3.67	1,008,174	3.700
(JN31) CU-168 SQUIB	A		-	-	-	600.23	883	0.530	600.24	3,332	2.000	554.52	3,606	2.000	-	-	-	554.63	3,606	2.000
(WA83) CCU-136	A		-	-	-	-	-	-	-	-	-	3.68	2,717	0.010	-	-	-	3.68	2,717	0.010
(WB24) CCU-145	A		-	-	-	-	-	-	-	-	-	5.31	37,664	0.200	-	-	-	5.31	37,664	0.200
(M943) MK107 IMPULSE CARTRIDGE	A		-	-	-	116.90	13,045	1.525	342.67	4,377	1.500	346.45	4,329	1.500	-	-	-	346.50	4,329	1.500
(MF60) CTG 25MM TP PGU-23/U	A		-	-	-	-	-	-	-	-	-	8.63	28,968	0.250	-	-	-	8.63	28,968	0.250
(MT40) BBU-46 SQUIB, ELECTRIC	A		-	-	-	-	-	-	79.06	2,529	0.200	-	-	-	-	-	-	-	-	-
(NY02) CHAFF, RR-196(T-1)AL	A		-	-	-	39.50	44,303	1.750	-	-	-	40.37	74,313	3.000	-	-	-	40.37	74,313	3.000

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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
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(SS44) BBU63/B IMPULSE CARTRIDGE	A		-	-	-	528.58	2,729	1.443	534.30	3,743	2.000	540.19	3,702	2.000	-	-	-	540.25	3,702	2.000
(SY16) RR-180 CHAFF CARTRIDGE	A		-	-	-	9.43	265,111	2.500	9.53	262,329	2.500	9.46	264,270	2.500	-	-	-	9.46	264,270	2.500
Subtotal: IMPULSE CARTRIDGES			-	-	-	-	-	7.748	-	-	10.200	-	-	15.160	-	-	-	-	-	15.160
Medium Cal																				
(A931) CTG 20MM DUMMY PGU-39/B	A		-	-	-	-	-	-	-	-	-	7.04	567,843	4.000	-	-	-	7.04	567,843	4.000
Subtotal: Medium Cal			-	-	-	-	-	-	-	-	-	-	-	4.000	-	-	-	-	-	4.000
Total			-	-	-	-	-	36.270	-	-	38.358	-	-	47.648	-	-	-	-	-	47.648

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

Remarks:

All Ammunition Cartridges:

Prices are provided by the Single Manager for Conventional Ammunition (SMCA), Department of the Army. Prices shown represent the SMCA efforts to obtain munitions items for the DoD Military Services purchasing the same or similar items. Cost drivers include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases). FY14 price changes are due to new contracts with Lake City Army Ammo Plant (LCAAP) and the planned procurements of other customers.

The Navy procures Frangible rounds such as DODIC AA16, 9MM for the Air Force and prices provided based on vendor estimates and AF and Navy combined planned procurements.

All Chaff and Impulse Cartridges:

Items are managed and procured through OO-ALC. Prices are estimates from industry.

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