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**Department of Defense
Fiscal Year (FY) 2018 Budget Estimates**

May 2017



Air Force

Justification Book Volume 1 of 1

Procurement of Ammunition, Air Force

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Air Force • Budget Estimates FY 2018 • Procurement

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Appropriation Language

Fiscal Year (FY) 2018 President's Budget Request Procurement of Ammunition, Air Force

For construction, procurement, production, and modification of ammunition and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including ammunition facilities authorized by section 2854 of title 10, United States Code, and the land necessary therefor, for the foregoing purposes, and such lands and interests therein, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; other expenses necessary for the foregoing purposes, and overseas contingency operations, \$1,878,111,000 to remain available for obligation until September 30, 2020.

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Department of the Air Force
 FY 2018 President's Budget Request
 Exhibit P-1 FY 2018 President's Budget Request
 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation -----	FY 2016 Base + OCO -----	FY 2017 PB Request with CR Adj Base -----	FY 2017 Total PB Requests* with CR Adj Base -----
Aircraft Procurement, Air Force	15,948,514	15,722,662	17,570,182
Missile Procurement, Air Force	3,188,714	2,904,680	2,904,680
Space Procurement, Air Force	2,811,456	2,806,111	2,826,011
Procurement of Ammunition, Air Force	1,973,389	1,741,199	1,811,199
Other Procurement, Air Force	21,818,134	18,275,655	19,552,800
Total Department of the Air Force	45,740,207	41,450,307	44,664,872

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Department of the Air Force
 FY 2018 President's Budget Request
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 (Dollars in Thousands)

04 May 2017

Appropriation	FY 2017 PB Request with CR Adj OCO	FY 2017 Total PB Requests* with CR Adj OCO	FY 2017 Less Enacted Div B P.L.114-254** OCO	FY 2017 Remaining Req with CR Adj OCO
-----	-----	-----	-----	-----
Aircraft Procurement, Air Force	128,900	202,000		202,000
Missile Procurement, Air Force	289,142	289,142	-83,900	205,242
Space Procurement, Air Force				
Procurement of Ammunition, Air Force	228,874	228,874	-201,563	27,311
Other Procurement, Air Force	3,477,001	3,826,798	-137,884	3,688,914
Total Department of the Air Force	4,123,917	4,546,814	-423,347	4,123,467

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Department of the Air Force
 FY 2018 President's Budget Request
 Exhibit P-1 FY 2018 President's Budget Request
 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation -----	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA -----	FY 2017 Total PB Requests* with CR Adj Base + OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj Base + OCO -----
Aircraft Procurement, Air Force	15,851,562	17,772,182		17,772,182
Missile Procurement, Air Force	3,277,722	3,193,822	-83,900	3,109,922
Space Procurement, Air Force	2,806,111	2,826,011		2,826,011
Procurement of Ammunition, Air Force	2,171,636	2,040,073	-201,563	1,838,510
Other Procurement, Air Force	21,890,540	23,379,598	-137,884	23,241,714
Total Department of the Air Force	45,997,571	49,211,686	-423,347	48,788,339

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Department of the Air Force
 FY 2018 President's Budget Request
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 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation -----	FY 2018 Base -----	FY 2018 OCO -----	FY 2018 Total -----
Aircraft Procurement, Air Force	15,430,849	740,778	16,171,627
Missile Procurement, Air Force	2,296,182	395,400	2,691,582
Space Procurement, Air Force	3,370,775	2,256	3,373,031
Procurement of Ammunition, Air Force	1,376,602	501,509	1,878,111
Other Procurement, Air Force	19,603,497	4,008,887	23,612,384
Total Department of the Air Force	42,077,905	5,648,830	47,726,735

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Department of the Air Force
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 (Dollars in Thousands)

04 May 2017

Appropriation: Procurement of Ammunition, Air Force

Budget Activity -----	FY 2016 Base + OCO -----	FY 2017 PB Request with CR Adj Base -----	FY 2017 Total PB Requests* with CR Adj Base -----
01. Ammunition	1,913,317	1,640,260	1,710,260
02. Weapons	60,072	37,459	37,459
20. Undistributed		63,480	63,480
Total Procurement of Ammunition, Air Force	1,973,389	1,741,199	1,811,199

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Department of the Air Force
 FY 2018 President's Budget Request
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 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation: Procurement of Ammunition, Air Force

Budget Activity -----	FY 2017 PB Request with CR Adj OCO -----	FY 2017 Total PB Requests* with CR Adj OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj OCO -----
01. Ammunition	487,408	487,408	-201,563	285,845
02. Weapons				
20. Undistributed	-258,534	-258,534		-258,534
Total Procurement of Ammunition, Air Force	228,874	228,874	-201,563	27,311

Department of the Air Force
 FY 2018 President's Budget Request
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 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation: Procurement of Ammunition, Air Force

Budget Activity -----	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA -----	FY 2017 Total PB Requests* with CR Adj Base + OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj Base + OCO -----
01. Ammunition	2,329,231	2,197,668	-201,563	1,996,105
02. Weapons	37,459	37,459		37,459
20. Undistributed	-195,054	-195,054		-195,054
Total Procurement of Ammunition, Air Force	2,171,636	2,040,073	-201,563	1,838,510

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Department of the Air Force
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 (Dollars in Thousands)

04 May 2017

Appropriation: Procurement of Ammunition, Air Force

Budget Activity -----	FY 2018 Base -----	FY 2018 OCO -----	FY 2018 Total -----
01. Ammunition	1,347,991	501,509	1,849,500
02. Weapons	28,611		28,611
20. Undistributed			
Total Procurement of Ammunition, Air Force	1,376,602	501,509	1,878,111

Department of the Air Force
 FY 2018 President's Budget Request
 Exhibit P-1 FY 2018 President's Budget Request
 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016		FY 2017		FY 2017		S e c
			Quantity	Cost	with CR Adj	Base	Total	PB Requests*	
				Base + OCO			with CR Adj	Base	
Budget Activity 01: Ammunition									

Rockets									
1	Rockets	A		23,788		18,734		18,734	U
Cartridges									
2	Cartridges	A		185,073		220,237		220,237	U
Bombs									
3	Practice Bombs	A		89,759		97,106		97,106	U
4	General Purpose Bombs	A		633,987		581,561		641,561	U
5	Massive Ordnance Penetrator (MOP)			39,690		3,600		3,600	U
6	Joint Direct Attack Munition	A	22478	533,975	12133	303,988	12133	303,988	U
7	B61								U
8	B61 Advance Procurement (CY) C (FY 2018 for FY 2019) (M)								U
Other Items									
9	Cad/Pad	A		50,287		38,890		38,890	U
10	Explosive Ordnance Disposal (EOD)	A		5,612		5,714		5,714	U
11	Spares and Repair Parts	A		103		740		740	U
12	Modifications	A		1,102		573		573	U
13	Items Less Than \$5 Million	A		3,044		5,156		5,156	U

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 (Dollars in Thousands)

04 May 2017

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj OCO		FY 2017 Total PB Requests* with CR Adj OCO		FY 2017 Less Enacted Div B P.L.114-254** OCO		FY 2017 Remaining Req with CR Adj OCO		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Ammunition											

Rockets											
1	Rockets	A		60,000		60,000				60,000	U
Cartridges											
2	Cartridges	A		9,830		9,830				9,830	U
Bombs											
3	Practice Bombs	A									U
4	General Purpose Bombs	A		7,921		7,921				7,921	U
5	Massive Ordnance Penetrator (MOP)										U
6	Joint Direct Attack Munition	A	18531	403,126	18531	403,126	-201,563	18531	201,563		U
7	B61										U
8	B61 Advance Procurement (CY) C (FY 2018 for FY 2019) (M)										U
Other Items											
9	Cad/Pad	A									U
10	Explosive Ordnance Disposal (EOD)	A									U
11	Spares and Repair Parts	A									U
12	Modifications	A									U
13	Items Less Than \$5 Million	A									U

Department of the Air Force
 FY 2018 President's Budget Request
 Exhibit P-1 FY 2018 President's Budget Request
 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Total		FY 2017 Total		FY 2017 Less Enacted		FY 2017 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Ammunition											
Rockets											
1	Rockets	A		78,734		78,734				78,734	U
Cartridges											
2	Cartridges	A		230,067		230,067				230,067	U
Bombs											
3	Practice Bombs	A		97,106		97,106				97,106	U
4	General Purpose Bombs	A		589,482		649,482				649,482	U
5	Massive Ordnance Penetrator (MOP)			3,600		3,600				3,600	U
6	Joint Direct Attack Munition	A	30664	908,677	30664	707,114		-201,563	30664	505,551	U
7	B61										U
8	B61 Advance Procurement (CY) C (FY 2018 for FY 2019) (M)										U
Other Items											
9	Cad/Pad	A		38,890		38,890				38,890	U
10	Explosive Ordnance Disposal (EOD)	A		5,714		5,714				5,714	U
11	Spares and Repair Parts	A		740		740				740	U
12	Modifications	A		573		573				573	U
13	Items Less Than \$5 Million	A		5,156		5,156				5,156	U

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 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Ammunition									

Rockets									
1	Rockets	A		147,454		49,050		196,504	U
Cartridges									
2	Cartridges	A		161,744		11,384		173,128	U
Bombs									
3	Practice Bombs	A		28,509				28,509	U
4	General Purpose Bombs	A		329,501				329,501	U
5	Massive Ordnance Penetrator (MOP)			38,382				38,382	U
6	Joint Direct Attack Munition	A	10330	319,525	16990	390,577	27320	710,102	U
7	B61		30	77,068			30	77,068	U
8	B61								
	Advance Procurement (CY)			11,239				11,239	U
	C (FY 2018 for FY 2019) (M)			(11,239)				(11,239)	
Other Items									
9	Cad/Pad	A		53,469				53,469	U
10	Explosive Ordnance Disposal (EOD)	A		5,921				5,921	U
11	Spares and Repair Parts	A		678				678	U
12	Modifications	A		1,409				1,409	U
13	Items Less Than \$5 Million	A		5,047				5,047	U

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 4, 2017 at 10:02:54

Department of the Air Force
 FY 2018 President's Budget Request
 Exhibit P-1 FY 2018 President's Budget Request
 Total Obligational Authority
 (Dollars in Thousands)

04 May 2017

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016		FY 2017		FY 2017		S e c
			Quantity	Cost	with CR Adj	Base	Total	PB Requests*	
				Base + OCO			with CR Adj	Base	
14	Cancelled Account Adjustment			201					U
	Flares								
15	Flares	A		139,777		134,709		134,709	U
	Fuzes								
16	Fuzes	A		206,919		229,252		239,252	U
Total Ammunition				1,913,317		1,640,260		1,710,260	
Budget Activity 02: Weapons									

	Small Arms								
17	Small Arms	A		60,072		37,459		37,459	U
Total Weapons				60,072		37,459		37,459	
Budget Activity 20: Undistributed									

	Undistributed								
18	Adj to Match Continuing Resolution	A				63,480		63,480	U
Total Undistributed						63,480		63,480	
Total Procurement of Ammunition, Air Force				1,973,389		1,741,199		1,811,199	

Department of the Air Force
 FY 2018 President's Budget Request
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 (Dollars in Thousands)

04 May 2017

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj OCO		FY 2017 Total PB Requests* with CR Adj OCO		FY 2017 Less Enacted Div B P.L.114-254** OCO		FY 2017 Remaining Req with CR Adj OCO		S e c -
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
14	Cancelled Account Adjustment										U
	Flares										
15	Flares	A		6,531		6,531				6,531	U
	Fuzes										
16	Fuzes	A									U
	Total Ammunition			487,408		487,408		-201,563		285,845	
	Budget Activity 02: Weapons										
	Small Arms										
17	Small Arms	A									U
	Total Weapons										
	Budget Activity 20: Undistributed										
	Undistributed										
18	Adj to Match Continuing Resolution	A		-258,534		-258,534				-258,534	U
	Total Undistributed			-258,534		-258,534				-258,534	
	Total Procurement of Ammunition, Air Force			228,874		228,874		-201,563		27,311	

Department of the Air Force
 FY 2018 President's Budget Request
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 (Dollars in Thousands)

04 May 2017

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Total		FY 2017 Total		FY 2017 Less Enacted		FY 2017 Remaining Req		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
14	Cancelled Account Adjustment										U
	Flares										
15	Flares	A	141,240		141,240				141,240		U
	Fuzes										
16	Fuzes	A	229,252		239,252				239,252		U
	Total Ammunition		2,329,231		2,197,668		-201,563		1,996,105		
	Budget Activity 02: Weapons										
	Small Arms										
17	Small Arms	A	37,459		37,459				37,459		U
	Total Weapons		37,459		37,459				37,459		
	Budget Activity 20: Undistributed										
	Undistributed										
18	Adj to Match Continuing Resolution	A	-195,054		-195,054				-195,054		U
	Total Undistributed		-195,054		-195,054				-195,054		
	Total Procurement of Ammunition, Air Force		2,171,636		2,040,073		-201,563		1,838,510		

Department of the Air Force
 FY 2018 President's Budget Request
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 (Dollars in Thousands)

04 May 2017

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 Base		FY 2018 OCO		FY 2018 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
14	Cancelled Account Adjustment								U
	Flares								
15	Flares	A		143,983		3,498		147,481	U
	Fuzes								
16	Fuzes	A		24,062		47,000		71,062	U
	Total Ammunition			1,347,991		501,509		1,849,500	
	Budget Activity 02: Weapons								
	Small Arms								
17	Small Arms	A		28,611				28,611	U
	Total Weapons			28,611				28,611	
	Budget Activity 20: Undistributed								
	Undistributed								
18	Adj to Match Continuing Resolution	A							U
	Total Undistributed								
	Total Procurement of Ammunition, Air Force			1,376,602		501,509		1,878,111	

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Appropriation 3011F: Procurement of Ammunition, Air Force

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7	01	13	354040	B61.....	Volume 1 - 73
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9	01	15	355100	CAD/PAD.....	Volume 1 - 85
10	01	15	355450	Explosive Ordnance Disposal (EOD).....	Volume 1 - 89
11	01	15	355900	SPARES AND REPAIR PARTS.....	Volume 1 - 91
12	01	15	355970	MODIFICATIONS.....	Volume 1 - 93
13	01	15	355990	ITEMS LESS THAN \$5 MILLION.....	Volume 1 - 95
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16	01	18	356120	Fuzes.....	Volume 1 - 111

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Appropriation 3011F: Procurement of Ammunition, Air Force

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B61, Advance Procurement	354040	8	01	13.....	Volume 1 - 81
CAD/PAD	355100	9	01	15.....	Volume 1 - 85
Cartridges	352010	2	01	12.....	Volume 1 - 9
Explosive Ordnance Disposal (EOD)	355450	10	01	15.....	Volume 1 - 89
FLARES	356010	15	01	16.....	Volume 1 - 97
Fuzes	356120	16	01	18.....	Volume 1 - 111
General Purpose Bombs	353020	4	01	13.....	Volume 1 - 43
ITEMS LESS THAN \$5 MILLION	355990	13	01	15.....	Volume 1 - 95
JOINT DIRECT ATTACK MUNITION	353620	6	01	13.....	Volume 1 - 63
MASSIVE ORDNANCE PENETRATOR (MOP)	353190	5	01	13.....	Volume 1 - 59
MODIFICATIONS	355970	12	01	15.....	Volume 1 - 93
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Exhibit P-1, Procurement Program
(Listing by Appropriation, then Line Number)

**Appropriation 3011F: Procurement of Ammunition, Air Force
BA 01: Ammunition / BSA 11: Rockets**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
1	A	351010	Rockets	-	23.788	-	78.734	-	147.454	-	49.050	-	196.504
Total: Ammunition / Rockets				-	23.788	-	78.734	-	147.454	-	49.050	-	196.504

**Appropriation 3011F: Procurement of Ammunition, Air Force
BA 01: Ammunition / BSA 12: Cartridges**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
2	A	352010	Cartridges	-	185.073	-	230.067	-	161.744	-	11.384	-	173.128
Total: Ammunition / Cartridges				-	185.073	-	230.067	-	161.744	-	11.384	-	173.128

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Exhibit P-1, Procurement Program
(Listing by Appropriation, then Line Number)

**Appropriation 3011F: Procurement of Ammunition, Air Force
BA 01: Ammunition / BSA 13: Bombs**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
3	A	353010	Practice Bombs	-	89.759	-	97.106	-	28.509	-	0.000	-	28.509
4	A	353020	General Purpose Bombs	-	633.987	-	649.482	-	329.501	-	0.000	-	329.501
5	A	353190	MASSIVE ORDNANCE PENETRATOR (MOP)	-	39.690	-	3.600	-	38.382	-	0.000	-	38.382
6	A	353620	JOINT DIRECT ATTACK MUNITION	22,478	533.975	30,664	707.114	10,330	319.525	16,990	390.577	27,320	710.102
7	A	354040	B61	-	0.000	-	0.000	30	77.068	-	0.000	30	77.068
7	B	354040	B61	-	0.000	-	0.000	30	0.000	-	-	30	0.000
8	C	354040	B61	-	0.000	-	0.000	30	11.239	-	-	30	11.239
Total: Ammunition / Bombs				-	1,297.411	-	1,457.302	-	804.224	-	390.577	-	1,194.801

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 (Listing by Appropriation, then Line Number)

**Appropriation 3011F: Procurement of Ammunition, Air Force
 BA 01: Ammunition / BSA 15: Other Items**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
9	A	355100	CAD/PAD	-	50.287	-	38.890	-	53.469	-	0.000	-	53.469
10	A	355450	Explosive Ordnance Disposal (EOD)	-	5.612	-	5.714	-	5.921	-	0.000	-	5.921
11	A	355900	SPARES AND REPAIR PARTS	-	0.103	-	0.740	-	0.678	-	0.000	-	0.678
12	A	355970	MODIFICATIONS	-	1.102	-	0.573	-	1.409	-	0.000	-	1.409
13	A	355990	ITEMS LESS THAN \$5 MILLION	-	3.044	-	5.156	-	5.047	-	0.000	-	5.047
Total: Ammunition / Other Items				-	60.148	-	51.073	-	66.524	-	0.000	-	66.524

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Air Force • Budget Estimates FY 2018 • Procurement
Exhibit P-1, Procurement Program
(Listing by Appropriation, then Line Number)

**Appropriation 3011F: Procurement of Ammunition, Air Force
BA 01: Ammunition / BSA 16: Flares**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
15	A	356010	FLARES	-	139.777	-	181.240	-	143.983	-	3.498	-	147.481
Total: Ammunition / Flares				-	139.777	-	181.240	-	143.983	-	3.498	-	147.481

**Appropriation 3011F: Procurement of Ammunition, Air Force
BA 01: Ammunition / BSA 18: Fuzes**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
16	A	356120	Fuzes	-	206.919	-	239.252	-	24.062	-	47.000	-	71.062
Total: Ammunition / Fuzes				-	206.919	-	239.252	-	24.062	-	47.000	-	71.062

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Air Force • Budget Estimates FY 2018 • Procurement
 Exhibit P-1, Procurement Program
 (Listing by Appropriation, then Line Number)

**Appropriation 3011F: Procurement of Ammunition, Air Force
 BA 02: Weapons / BSA 1: Small Arms**

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
17	A	357010	SMALL ARMS	-	60.072	-	37.459	-	28.611	-	0.000	-	28.611
Total: Weapons / Small Arms				-	60.072	-	37.459	-	28.611	-	0.000	-	28.611

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ACRONYMS

GENERAL ACRONYMS

A&AS	- Advisory & Assistance Services
ABIDES	- Automated Budget Interactive Data Environment System
ACAT	- Acquisition Category
ACTD	- Advanced Concept Technology Demonstration
AGM	- Air-to-Ground Missile
AIM	- Air Intercept Missile
AIS	- Avionics Intermediate Shop
ACMI	- Aircraft Combat Maneuvering Instrumentation
AMRAAM	- Advanced Medium-Range Air-to-Air Missile
APPN	- Appropriation
ATD	- Advanced Technology Development
BA	- Budget Activity
BLSS	- Base Level Self-Sufficiency Spares
BY	- Budget Year
C3	- Command, Control, and Communication System
CFE	- Contractor Furnished Equipment
CONOPS	- Concept of Operation
CONUS	- Continental United States
CPMS	- Comprehensive Power Management System
CPT	- Cockpit Procedures Trainer
CRA	- Continuing Resolution Authority
CTS	- Countermeasures Test Set
CY	- Current Year
ECCM	- Electronic Counter Counter-Measures
ECM	- Electronic Counter Measures
ECO	- Engineering Change Orders
EOQ	- Economic Order Quantity
ECP	- Engineering Change Proposal
EPA	- Economic Price Adjustment
EW	- Electronic Warfare
EWAIISP	- Electronic Warfare Avionics Integration Support Facility
FLIR	- Forward Looking Infra Red

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FOT&E	- Follow-on Test and Evaluation
FOC	- Fully Operational Capability
FLTS	- Flight Line Test Set
FPIF	- Fixed Price Incentive Firm
FPIS	- Fixed Price Incentive Fee, Successive Targets
FY	- Fiscal Year
GANS	- Global Access Navigation & Safety
GATM	- Global Air Traffic Management
GFE	- Government Furnished Equipment
GFP	- Government Furnished Property
GPS	- Global Positioning System
GSE	- Ground Support Equipment
ICS	- Interim Contractor Support
IOC	- Initial Operating Capability
IPE	- Increased Performance Engine
JPALS	- Joint Precision Approach and Landing System
MAIS	- Major Automated Information System Program
MDAP	- Major Defense Acquisition Program
METS	- Mobile Electronic Test Stations
MYP	- Multiyear Procurement
MSIP	- Multi-Stage Improvement Program
NAVWAR	- Navigation Warfare
NMC Rate	- Not Mission Capable Rate
OFF	- Operational Flight Program
OT&E	- Operational Test and Evaluation
OWRM	- Other War Reserve Material
PAGEL	- Priced Aerospace Ground Equipment List
PB	- President's Budget
PGSE	- Peculiar Ground Support Equipment
PMA	- Program Management Administration
PMC	- Procurement Method Code
PNO	- Acquisition Program Number (MDAP Codes)
PR	- Purchase Request
PRCP	- Program Resource Collection Process
PTT	- Part Task Trainer
PY	- Prior Year

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R&M	- Reliability and Maintainability
RAA	- Required Asset Availability
RDT&E	- Research, Development, Test and Evaluation
RWR	- Radar Warning Receiver
ROM	- Rough Order of Magnitude
SS	- Sole Source
SOF	- Special Operation Force
TAF	- Tactical Air Force
TCAS	- Traffic Collision Alert and Avoidance System
TEWS	- Tactical Electronic Warfare System
TISS	- TEWS Intermediate Support System
TOA	- Total Obligation Authority
WCF	- Working Capital Fund
WRM	- War Reserve Material
WST	- Weapon System Trainer
UAV	- Unmanned Aerial Vehicle
XML	- Extensible Markup Language

BASE / ORGANIZATIONAL ACRONYMS

ACC	- Air Combat Command
AETC	- Air Education & Training Command
AFCAO	- Air Force Computer Acquisition Office
AFCESA	- Air Force Civil Engineering Support Agency
AFCIC	- AF Communications & Information Center
AFCSC	- Air Force Cryptologic Service Center
AFESC	- Air Force Engineering Services Center
AFGWC	- Air Force Global Weather Central
AFIT	- Air Force Institute of Technology
AFLCMC	- Air Force Life Cycle Management Center
AFMC	- Air Force Materiel Command
AFMETCAL	- Air Force Metrology and Calibration Office
AFMLO	- Air Force Medical Logistics Office
AFOSI	- Air Force Office of Special Investigation
AFOTEC	- Air Force Operational Test & Evaluation Center
AFPC	- Air Force Personnel Center

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AFPSL	- AF Primary Standards Lab
AFR	- Air Force Reserve
AFSOC	- AF Special Operations Command
AFSPC	- Air Force Space Command
AIA	- Air Intelligence Agency
ALC	- Air Logistics Center
AMC	- Air Mobility Command
ANG	- Air National Guard
ASC	- Aeronautical Systems Center
AETC	- Air Education Training Command
AU	- Air University
AWS	- Air Weather Service
CIA	- Central Intelligence Agency
DGSC	- Defense General Support Center
DLA	- Defense Logistics Center
DOE	- Department of Energy
DPSC	- Defense Personnel Support Center
DSCC	- Defense Supply Center, Columbus
DTIC	- Defense Technical Information Center
ER	- Eastern Range
ESC	- Electronic Systems Center
FAA	- Federal Aviation Agency
FBI	- Federal Bureau of Investigation
GSA	- General Services Administration
JCS	- Joint Chiefs of Staff
NATO	- North Atlantic Treaty Organization
OSD	- Office of the Secretary of Defense
PACAF	- Pacific Air Forces
USAF	- United States Air Force
USAFA	- United States Air Force Academy
USAFE	- United States Air Force Europe
USCENTCOM	- United States Central Command
USEUCOM	- United States European Command
USMC	- United States Marine Corps
USSTRATCOM	- United States Strategic Command
WP AFB	- Wright-Patterson AFB, OH

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CONTRACT METHOD / TYPE ACRONYMS

C	- Competitive
BA	- Basic Agreement
BOA	- Basic Ordering Agreement
BPA	- Blanket Purchasing Agreement
CS	- Cost Sharing
IDDQ	- Indefinite Delivery, Definite Quantity
IDIQ	- Indefinite Delivery, Indefinite Quantity
IDRT	- Indefinite Delivery, Requirements
Letter	- Letter
LH	- Labor-hour
MIPR	- Military Interdepartmental Purchase Request
MIPR-C	- Military Interdepartmental Purchase Request - Competitive
MIPR-OPT	- Military Interdepartmental Purchase Request - Option
MIPR-OTH	- Military Interdepartmental Purchase Request – Other
MIPR-SS	- Military Interdepartmental Purchase Request - Sole Source
OPT	- Option
OTH	- Other
PO	- Project Order
REQN	- Requisition
SS	- Sole Source
T&M	- Time and Materials
UCA	- Undefinitized Contract Action
WP	- Work Project

CONTRACTED BY ACRONYMS

11 WING	- 11th Support Wing, Washington, DC
ACC	- Air Combat Command, Langley AFB, VA
AEDC	- Arnold Engineering Development Center, Arnold AFB, TN
AAC	- Air Armament Center, Eglin AFB, FL
AEDC	- Arnold Engineering Development Center, Arnold AFB, TN
AETC	- Air Education and Training Command, Randolph AFB, TX
AFCIC	- Air Force Communications and Information Center, Washington, DC
AFCESA	- Air Force Civil Engineering Support Agency, Tyndall AFB, FL
AFFTC	- Air Force Flight Test Center, Edwards AFB, CA

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AFLCMC	- Air Force Life Cycle Management Center, Wright-Patterson AFB, OH
AFMC	- Air Force Materiel Command, Wright-Patterson AFB, OH
AFMETCAL	- Air Force Metrology and Calibration Office, Heath, Ohio
AFMLO	- Air Force Medical Logistics Office, Ft Detrick, MD
AIA	- Air Intelligence Agency, Kelly AFB, TX
AMC	- Air Mobility Command, Scott AFB, IL
ASC	- Aeronautical Systems Center, Wright-Patterson AFB, OH & Eglin AFB, FL
AFWA	- Air Force Weather Agency, Offutt AFB, NE
DGSC	- Defense General Support Center, Richmond, VA
DPSC	- Defense Personnel Support Center, Philadelphia, PA
ER	- Eastern Range, Patrick AFB, FL
ESC	- Electronic Systems Center, Hanscom AFB, MA
HSC	- Human Services Center, Brook AFB, TX
OC-ALC	- Oklahoma City Air Logistics Center, Tinker AFB, OK
OO-ALC	- Ogden Air Logistics Center, Hill AFB, UT
SMC	- Space & Missile Systems Center, Los Angeles AFB, CA
US STRATCOM	- US Strategic Command, Offutt AFB, NE
WACC	- Washington Area Contracting Center, Washington DC
WR	- Western Range, Vandenberg AFB, CA
WR-ALC	- Warner-Robins Air Logistics Center, Robins AFB, GA
AFSPC	- Air Force Space Command, Peterson AFB, CO
HQ ANG	- Headquarters, Air National Guard, Washington, DC
USAFE	- United States Air Force Europe, Ramstein AB, GE
USAFA	- United States Air Force Academy, Colorado Springs, CO
SSG	- Standard Systems Group, Maxwell AFB-Gunter Annex, AL

IDENTIFICATION CODES

Code "A"	- Line items of material which have been approved for Air Force service use.
Code "B"	- Line items of material that have not been approved for Service use
OBAN	- Operating Budget Account Number, 2-digit code for unit allocated funds

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 11: Rockets	P-1 Line Item Number / Title: 351010 / Rockets
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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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	23.788	78.734	147.454	49.050	196.504	0.000	0.000	0.000	0.000	-	299.026
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	23.788	78.734	147.454	49.050	196.504	0.000	0.000	0.000	0.000	-	299.026
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	23.788	78.734	147.454	49.050	196.504	0.000	0.000	0.000	0.000	-	299.026

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

CY funding totals include \$60.000M requested for Overseas Contingency Operations.

The Air Force uses the 2.75 inch diameter rockets system to support various missions from low collateral damage guided high explosive warhead missions to target marking and battle field illumination missions and can be employed from both high and low speed aircraft.

- The 2.75 inch diameter rocket motor (HA07) is a single stage, solid grain rocket motor used to propel guided and unguided payloads to their targets. Payloads included the illuminating flare warhead (H812), Infrared (IR) illuminating flare warhead (HA06), Signal Practice warhead (H872), and White Phosphorus (WP) warhead (H855), M-151 High Explosive warheads (H842 and H843), and also carries the WGU-59B (HB24) Advance Precision Kill Weapons System II Rotary Wing plus (APKWS II RW+) guidance section. The 2.75 inch rockets are launched from reusable pods, the LAU-131A (H149) and LAU-131 A/A (HA91) extended length launcher, carried on A-10 and F-16 aircraft. These items are procured by AFLCMC/EBH through the U.S. Army Missile Command, Joint Attack Munitions Systems (JAMS), PEO Missile and Space at Redstone Arsenal, Alabama, and Department of the Navy PMA-242 at Patuxent River Naval Air Station.

- The WP Warhead (H855) provides forward air control aircraft with target locations from a standoff distance in a hostile environment.

- 2.75 Inch IR Illuminating Rocket (HA06); used with the 2.75 inch rocket motor (HA07), provides forward air control aircraft with the target locations from a standoff distance in a hostile environment.

- The LAU-131A/A (HA91) and the LAU-68 F/A (HA94) are seven tube (capacity) extended length launchers that can accommodate both legacy length 2.75 inch diameter rockets and the extended length of the APKWS II RW+ rockets. The extended length launchers are designed to accommodate the guidance and control section within the launcher.

- WGU-59B APKWS II RW+ weapon system is employed on the A-10 and F-16 aircraft. APKWS II RW+ All Up Round (AUR) is composed of a M423 fuze, M151/M282 Warhead, WGU-59B guidance and control section, and a MK66 rocket motor launched from an LAU-131 A/A or an LAU-68 F/A rocket launcher.

- M151 (H843 and H842)/M282 Multi-Purpose Penetrator (MPP) (HA96): The M282 MPP warhead provides aircrew and ground commanders greatly enhanced weaponeering options to engage targets protected by urban and cave environments. After completing a planned product improvement initiative, the M282 will be certified for fielding with APKWS II RW+ guidance section. The M282 and M151 are low-cost

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 11: Rockets		P-1 Line Item Number / Title: 351010 / Rockets
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>fragmentation and penetrator warheads that address an AF Urgent Operational Need (UON) for continuing Overseas Contingency Operations and will directly improve the warfighters' efficiency in a combat environment.</p> <p>The weapon is effective in any terrain, including, but not limited to, urban, desert and mountainous. It provides an ability to engage and destroy moving and transient targets. APKWS II RW+ offers greater precision, reduced collateral damage, and increased standoff range to enhance crew survivability.</p> <p>- Items Less Than Five Million Dollars: All items have an annual procurement value of less than \$5,000,000 and are Code A. These items are procured by AFLCMC/EBH through the U.S Army Missile Command Joint Attack Munitions Systems (JAMS), PEO Missiles and Space at Redstone Arsenal Alabama, and/or the U.S. Navy PMA-242 at Patuxent River Naval Air Station, 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>- The FGM-148 (PL64), Javelin Missile System (Javelin) is a medium Close Combat Missile System. The guided missile and launcher is a fire-and-forget, man portable, shoulder-fire close combat missile system which includes a reusable M-98A2 Command Launch Unit (CLU). It can also be fired from the Common Remotely Operated Weapon Station (CROWS) platform with minor modification. The Javelin is employable in day, night, and limited visibility environmental conditions in which Security Forces operates. System's primary role is to destroy enemy armored vehicles.</p> <p>Funding for this exhibit is contained in PE 0207599F and PE 0208030F.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 11: Rockets	P-1 Line Item Number / Title: 351010 / Rockets
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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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	(H855) WHD 2.75 RKT SMK M156 PD M427		A		- / -	- / 9.788	- / 5.939	- / 8.000	- / 0.000	- / 8.000
P-40a	(HA06) WARHEAD, 2.75 ILLUM				- / -	- / 14.000	- / 9.359	- / 8.001	- / 0.000	- / 8.001
P-5	APKWS	P-5a	A		- / -	- / 0.000	- / 60.000	- / 131.454	- / 49.050	- / 180.504
P-40a	ROCKETS (ITEMS LESS THAN \$5 MILLION)				- / -	- / 0.000	- / 3.436	- / 0.000	- / 0.000	- / 0.000
P-40	Total Gross/Weapon System Cost				- / -	- / 23.788	- / 78.734	- / 147.454	- / 49.050	- / 196.504

*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:
 FY2018 Purchase of rockets, launchers, warheads, and guidance sections to constitute the APKWS II RW+ all-up-round (AUR), and other marking and illuminating warheads for the 2.75 inch rockets, as well as launchers. The AUR is launched from reusable pods (launchers) carried on aircraft pylons and Triple Ejection Racks (TER).
 FY2018: The requested funds for Advanced Precision Kill Weapon System (APKWS) are needed to procure AURs to provide a low cost precision kill capability on F-16s and A-10s and other DoD aircraft operating in the theater of operations in FY18. APKWS AURs procured with Congressionally approved FY15 funds in the new start UON are projected to be exhausted by FY18.
 The Air Force procures munitions to maintain appropriate operational quantity levels, as well as 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.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11	P-1 Line Item Number / Title: 351010 / Rockets	Item Number / Title [DODIC]: - / (H855) WHD 2.75 RKT SMK M156 PD M427

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	9.788	5.939	8.000	0.000	8.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	9.788	5.939	8.000	0.000	8.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	9.788	5.939	8.000	0.000	8.000

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
2.75 WARHEAD WP SMOKE - H855	-	-	-	0.000	24,168	9.788	0.000	13,821	5.939	0.000	17,600	8.000	-	-	0.000	0.000	17,600	8.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	9.788	-	-	5.939	-	-	8.000	-	-	0.000	-	-	8.000
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	9.788	-	-	5.939	-	-	8.000	-	-	0.000	-	-	8.000
Gross/Weapon System Cost	-	-	-	-	-	9.788	-	-	5.939	-	-	8.000	-	-	0.000	-	-	8.000

Remarks:

Unit prices are provided by the Joint Attack Munitions Systems (JAMS) Program Office, Dept of Army. Prices shown represent the efforts to produce items for the DoD Military Services and other customers purchasing the same or similar items, and to provide technical support and surveillance of the Air Force order.

Unit price variances among current and prior fiscal years are due to the total customer orders per ordering period. Costs, including overhead and production engineering are developed using a total volume matrix, with high, medium and low total quantity ranges. Other cost drivers include complex or scarce materials such as white phosphorous.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11 **P-1 Line Item Number / Title:** 351010 / Rockets **Aggregated Items Title:** (HA06) WARHEAD, 2.75 ILLUM

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(HA06) WARHEAD, 2.75 ILLUM	A		-	-	-	0.002	7,629	14.000	0.003	3,689	9.359	0.003	2,906	8.001	-	-	0.000	0.003	2,906	8.001
Subtotal: Uncategorized			-	-	-	-	-	14.000	-	-	9.359	-	-	8.001	-	-	0.000	-	-	8.001
Total			-	-	-	-	-	14.000	-	-	9.359	-	-	8.001	-	-	0.000	-	-	8.001

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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11	P-1 Line Item Number / Title: 351010 / Rockets	Item Number / Title [DODIC]: - / APKWS

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	60.000	131.454	49.050	180.504
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	60.000	131.454	49.050	180.504
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	60.000	131.454	49.050	180.504

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Advanced Precision Kill Weapon System (APKWS) Cost																		
Recurring Cost																		
Guidance Section ^(t)	-	-	-	-	-	-	0.011	4,500	51.237	0.023	5,305	122.148	0.023	1,974	45.451	0.023	7,279	167.599
Rocket Motor	-	-	-	-	-	-	0.000	1,000	0.495	-	-	-	-	-	-	-	-	-
Launcher	-	-	-	-	-	-	0.019	100	1.900	0.015	96	1.424	0.015	50	0.742	0.015	146	2.165
Warhead M151	-	-	-	-	-	0.000	0.001	875	1.309	0.001	1,317	1.403	0.001	505	0.538	0.001	1,822	1.940
Warhead M282	-	-	-	-	-	-	0.004	875	3.079	0.005	1,320	6.123	0.005	500	2.320	0.005	1,820	8.443
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	58.020	-	-	131.098	-	-	49.050	-	-	180.148
<i>Subtotal: Hardware - Advanced Precision Kill Weapon System (APKWS) Cost</i>	-	-	-	-	-	0.000	-	-	58.020	-	-	131.098	-	-	49.050	-	-	180.148
Support - APKWS Cost																		
Production Support	-	-	-	-	-	-	-	-	1.980	-	-	0.356	-	-	-	-	-	0.356
<i>Subtotal: Support - APKWS Cost</i>	-	-	-	-	-	-	-	-	1.980	-	-	0.356	-	-	-	-	-	0.356
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	60.000	-	-	131.454	-	-	49.050	-	-	180.504

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11	P-1 Line Item Number / Title: 351010 / Rockets	Item Number / Title [DODIC]: - / APKWS
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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>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Guidance Section		2017	BAE / Nashua, NH	SS / FFP	NAVAIR	Apr 2017	Dec 2017	4,500	0.011	Y		
Guidance Section		2018	BAE / Nashua, NH	SS / FFP	NAVAIR	Apr 2018	Dec 2018	5,305	0.023	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11	P-1 Line Item Number / Title: 351010 / Rockets	Aggregated Items Title: ROCKETS (ITEMS LESS THAN \$5 MILLION)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(PL64) JAVELIN MISSILE SYSTEM (JAVELIN)	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
(H149) LAUNCHER LAU-131A F/2.75	A		-	-	-	-	-	0.000	0.011	323	3.436	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	3.436	-	-	0.000	-	-	0.000	-	-	0.000
Total			-	-	-	-	-	0.000	-	-	3.436	-	-	0.000	-	-	0.000	-	-	0.000

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-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	185.073	230.067	161.744	11.384	173.128	165.026	161.050	156.289	159.181	-	1,229.814
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	185.073	230.067	161.744	11.384	173.128	165.026	161.050	156.289	159.181	-	1,229.814
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	185.073	230.067	161.744	11.384	173.128	165.026	161.050	156.289	159.181	-	1,229.814

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

PY funding includes \$8.371M appropriated for Overseas Contingency Operations.
CY funding includes \$9.830M 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 Target Practice (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 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: FY 2018 Air Force		Date: May 2017
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		
<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 (RR170, RR180, MJU-66, MJU-64, MJU-71, MJU-73).</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-48/B (formerly Frangible Armor Piercing (FAP)) round to be used in GAU-22 gun 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: FY 2018 Air Force	Date: May 2017
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
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Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	(A143) 7.62MM BALL LINKED (M80)		A		- / 0.000	- / 5.000	- / 5.500	- / 0.000	- / 0.000	- / 0.000
P-40a	(A978) CTG, 25MM, TP (PGU-23/U)				- / -	- / 2.412	- / 0.000	- / 17.000	- / 0.000	- / 17.000
P-5	(AA22) 20MM PGU-28A/B SEMI-AP, HEI	P-5a	A		- / -	- / 13.837	- / 48.689	- / 7.283	- / 11.384	- / 18.667
P-5	(AA24) 20MM, TP PGU-27A/B	P-5a	A		- / -	- / 45.348	- / 42.628	- / 26.694	- / 0.000	- / 26.694
P-40a	(AA40) 5.56MM, FRANGIBLE				- / -	- / 8.000	- / 8.000	- / 9.000	- / 0.000	- / 9.000
P-40a	(AB09) 5.56 BLUE MARKING CARTRIDGE				- / -	- / 2.000	- / 5.000	- / 3.000	- / -	- / 3.000
P-5	(AB57) 5.56 CLIPPED BALL, LEAD FREE		A		- / -	- / 5.548	- / 6.000	- / 6.000	- / -	- / 6.000
P-40a	(AB98) 25MM PGU-48/B				- / -	- / 0.000	- / 10.000	- / 4.000	- / -	- / 4.000
P-5	(B116) 30MM PGU-15/B, TP	P-5a	A		- / 0.000	- / 52.643	- / 41.707	- / 36.594	- / 0.000	- / 36.594
P-40a	(MG62) BBU-35/B IMPULSE CARTRIDGE				- / -	- / 5.000	- / 5.895	- / 5.000	- / 0.000	- / 5.000
P-40a	(SS-27) BBU-48/B IMPULSE CARTRIDGE				- / -	- / 4.500	- / 4.000	- / 4.000	- / -	- / 4.000
P-40a	CARTRIDGES (ITEMS LESS THAN \$5 MILLION)				- / -	- / 38.358	- / 47.648	- / 38.561	- / 0.000	- / 38.561
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 185.073	- / 230.067	- / 161.744	- / 11.384	- / 173.128

*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:
 FY2018 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 53% of total inventory objective.

-20MM PGU-27 (AA24): This procurement is critical to replenish WRM stockpiles supporting pilot training and proficiency. 70% of total inventory 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 FY17 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. 88% of total inventory is in the field, 12% 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-48/B (formerly Frangible Armor Piercing (FAP)) or other alternative round to be used in GAU-22 gun on the F-35/JSF.

-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).

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force		Date: May 2017
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		
<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 FY17 requisitions and projected FY18 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: FY 2018 Air Force		Date: May 2017
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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	5.000	5.500	0.000	0.000	0.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	5.000	5.500	0.000	0.000	0.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	5.000	5.500	0.000	0.000	0.000

(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 Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT	-	-	0.000	0.000	9,041,509	4.792	0.000	10,101,923	5.253	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>4.792</i>	-	-	<i>5.253</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	<i>0.000</i>	-	-	<i>4.792</i>	-	-	<i>5.253</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	0.000	-	-	0.205	-	-	0.229	-	-	0.000	-	-	0.000	-	-	0.000
ACCEPTANCE TESTING	-	-	0.000	-	-	0.000	-	-	0.013	-	-	0.000	-	-	0.000	-	-	0.000
QUALITY ASSURANCE	-	-	0.000	-	-	0.003	-	-	0.005	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.208</i>	-	-	<i>0.247</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>
Gross/Weapon System Cost	-	-	0.000	-	-	5.000	-	-	5.500	-	-	0.000	-	-	0.000	-	-	0.000

Remarks:

Item has been moved to P-40a Items Less Than \$5 Million.
 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).

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(A978) CTG, 25MM, TP (PGU-23/U)	A		-	-	-	0.000	91,991	2,412	-	-	0.000	0.000	590,893	17,000	-	-	0.000	0.000	590,893	17,000
Subtotal: Uncategorized			-	-	-	-	-	2,412	-	-	0.000	-	-	17,000	-	-	0.000	-	-	17,000
Total			-	-	-	-	-	2,412	-	-	0.000	-	-	17,000	-	-	0.000	-	-	17,000

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: FY 2018 Air Force		Date: May 2017
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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	13.837	48.689	7.283	11.384	18.667
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	13.837	48.689	7.283	11.384	18.667
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	13.837	48.689	7.283	11.384	18.667

(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 Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK ^(†)	-	-	-	0.000	545,558	13.612	0.000	1,923,240	47.196	0.000	233,588	6.963	0.000	376,550	11.225	0.000	610,138	18.188
BOX, METAL M548	-	-	-	0.000	1,980	0.081	0.000	6,553	0.285	0.000	943	0.042	0.000	1,521	0.068	0.000	2,464	0.111
PALLET MK3-0	-	-	-	0.000	154	0.028	0.000	300	0.053	0.000	41	0.007	0.000	180	0.012	0.000	221	0.019
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	13.720	-	-	47.535	-	-	7.013	-	-	11.305	-	-	18.318
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	13.720	-	-	47.535	-	-	7.013	-	-	11.305	-	-	18.318
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.028	-	-	0.063	-	-	0.018	-	-	0.009	-	-	0.027
FIRST ARTICLE TESTING	-	-	-	-	-	0.089	-	-	1.091	-	-	0.252	-	-	0.070	-	-	0.322
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.117	-	-	1.154	-	-	0.270	-	-	0.079	-	-	0.349
Gross/Weapon System Cost	-	-	-	-	-	13.837	-	-	48.689	-	-	7.283	-	-	11.384	-	-	18.667

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: FY 2018 Air Force		Date: May 2017
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: FY 2018 Air Force								Date: May 2017				
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 (\$ M)	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	0.000	Y		
LOAD, ASSEMBLE, PACK		2017	General Dynamics & Alliant Tech / Marion, IL and Plymouth, MN	MIPR	AFLCMC Hill AFB	Mar 2017	Mar 2018	1,923,240	0.000	Y		
LOAD, ASSEMBLE, PACK		2018	General Dynamics & Alliant Tech / Marion, IL and Plymouth, MN	MIPR	AFLCMC Hill AFB	Mar 2018	Apr 2019	233,588	0.000	Y		

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	45.348	42.628	26.694	0.000	26.694
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	45.348	42.628	26.694	0.000	26.694
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	45.348	42.628	26.694	0.000	26.694

(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 Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK ^(†)	-	-	-	0.000	3,980,000	44.417	0.000	3,630,100	41.710	0.000	2,125,200	26.097	-	-	0.000	0.000	2,125,200	26.097
BOX METAL M548	-	-	-	0.000	16,113	0.660	0.000	14,696	0.613	0.000	8,587	0.385	-	-	0.000	0.000	8,587	0.385
PALLET MK3-0	-	-	-	0.000	706	0.127	0.000	643	0.114	0.000	373	0.067	-	-	0.000	0.000	373	0.067
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	45.203	-	-	42.437	-	-	26.550	-	-	0.000	-	-	26.550
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	45.203	-	-	42.437	-	-	26.550	-	-	0.000	-	-	26.550
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.012	-	-	0.012	-	-	0.013	-	-	0.000	-	-	0.013
FIRST ARTICLE TEST	-	-	-	-	-	0.128	-	-	0.173	-	-	0.131	-	-	0.000	-	-	0.131
ACCEPTANCE TESTING	-	-	-	-	-	0.005	-	-	0.006	-	-	-	-	-	0.000	-	-	0.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.145	-	-	0.191	-	-	0.144	-	-	0.000	-	-	0.144
Gross/Weapon System Cost	-	-	-	-	-	45.348	-	-	42.628	-	-	26.694	-	-	0.000	-	-	26.694

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: FY 2018 Air Force		Date: May 2017
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: FY 2018 Air Force **Date:** May 2017

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>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK		2016	GENERAL DYNAMCIS AND ALLIANT TECH / MARION, IL AND PLYMOUTH, MN	MIPR	AFLCMC Hill AFB	Mar 2016	Mar 2017	3,980,000	0.000	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	0.000	Y		Jan 2017
LOAD, ASSEMBLE, PACK		2018	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND PLYMOUTH, MN	MIPR	AFLCMC Hill AFB	Mar 2018	Apr 2019	2,125,200	0.000	Y		Jan 2018

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
5.56 MM FRANG (AA40)	A		-	-	-	0.000	17,777,777	8.000	0.000	17,391,304	8.000	0.000	21,428,571	9.000	-	-	0.000	0.000	21,428,571	9.000
Subtotal: Uncategorized			-	-	-	-	-	8.000	-	-	8.000	-	-	9.000	-	-	0.000	-	-	9.000
Total			-	-	-	-	-	8.000	-	-	8.000	-	-	9.000	-	-	0.000	-	-	9.000

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: FY 2018 Air Force															Date: May 2017				
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(AB09) 5.56 BLUE MARKING CARTRIDGE	A		-	-	-	0.000	3,027,551	2.000	0.000	6,329,114	5.000	0.000	4,477,612	3.000	-	-	-	0.000	4,477,612	3.000
Subtotal: Uncategorized			-	-	-	-	-	2.000	-	-	5.000	-	-	3.000	-	-	-	-	-	3.000
Total			-	-	-	-	-	2.000	-	-	5.000	-	-	3.000	-	-	-	-	-	3.000

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

Remarks:
(AB09) 5.56 Blue Marking Cartridge FY18 funding has been moved to P-40a Cartridges (Items Less Than \$5 Million).

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	5.548	6.000	6.000	-	6.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	5.548	6.000	6.000	-	6.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	5.548	6.000	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 Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK	-	-	-	0.000	15,936,000	5.100	0.000	18,456,666	5.537	0.000	18,300,000	5.490	-	-	-	0.000	18,300,000	5.490
BOX, METAL M2A2	-	-	-	0.000	19,131	0.239	0.000	21,480	0.281	0.000	21,786	0.298	-	-	-	0.000	21,786	0.298
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	5.338	-	-	5.818	-	-	5.788	-	-	-	-	-	5.788
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	5.338	-	-	5.818	-	-	5.788	-	-	-	-	-	5.788
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.207	-	-	0.179	-	-	0.207	-	-	-	-	-	0.207
QUALITY ASSURANCE	-	-	-	-	-	0.003	-	-	0.003	-	-	0.005	-	-	-	-	-	0.005
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.210	-	-	0.182	-	-	0.212	-	-	-	-	-	0.212
Gross/Weapon System Cost	-	-	-	-	-	5.548	-	-	6.000	-	-	6.000	-	-	-	-	-	6.000

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
25MM PGU-48/B	A		-	-	-	-	-	0.000	0.000	48,309	10.000	0.000	15,444	4.000	-	-	-	0.000	15,444	4.000
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	10.000	-	-	4.000	-	-	-	-	-	4.000
Total			-	-	-	-	-	0.000	-	-	10.000	-	-	4.000	-	-	-	-	-	4.000

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

Remarks:

The PGU-48/B is a high performance 25MM Frangible Armor Piercing (FAP) Round that is being procured for use on the F-35/A.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	52.643	41.707	36.594	0.000	36.594
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	52.643	41.707	36.594	0.000	36.594
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	52.643	41.707	36.594	0.000	36.594

(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 Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD,ASSEMBLE,PACK ^(†)	-	-	0.000	0.000	2,248,750	48.528	0.000	1,734,900	38.341	0.000	1,459,180	33.663	-	-	0.000	0.000	1,459,180	33.663
CONTAINER CNU-332E	-	-	0.000	0.000	4,047	1.970	0.001	3,122	1.575	0.001	2,626	1.352	-	-	0.000	0.001	2,626	1.352
TUBE AND STRAP ASSEMBLY	-	-	0.000	0.000	4,047	1.823	0.000	3,122	1.388	0.000	2,626	1.167	-	-	0.000	0.000	2,626	1.167
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	<i>52.321</i>	-	-	<i>41.304</i>	-	-	<i>36.183</i>	-	-	<i>0.000</i>	-	-	<i>36.183</i>
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	<i>0.000</i>	-	-	<i>52.321</i>	-	-	<i>41.304</i>	-	-	<i>36.183</i>	-	-	<i>0.000</i>	-	-	<i>36.183</i>
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	0.000	-	-	0.005	-	-	0.012	-	-	0.012	-	-	0.000	-	-	0.012
ACCEPTANCE TESTING	-	-	0.000	-	-	0.066	-	-	0.134	-	-	0.129	-	-	0.000	-	-	0.129
FIRST ARTICLE TEST	-	-	0.000	-	-	0.251	-	-	0.257	-	-	0.270	-	-	0.000	-	-	0.270
<i>Subtotal: Support - Support End Item Cost</i>	-	-	<i>0.000</i>	-	-	<i>0.322</i>	-	-	<i>0.403</i>	-	-	<i>0.411</i>	-	-	<i>0.000</i>	-	-	<i>0.411</i>
Gross/Weapon System Cost	-	-	0.000	-	-	52.643	-	-	41.707	-	-	36.594	-	-	0.000	-	-	36.594

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: FY 2018 Air Force		Date: May 2017
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: FY 2018 Air Force **Date:** May 2017

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>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
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	0.000	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	0.000	Y		
LOAD,ASSEMBLE,PACK		2018	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND MESA, AZ	MIPR	ACC-ROCK ISLAND	Mar 2018	Apr 2019	1,459,180	0.000	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force															Date: May 2017				
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(MG62) BBU-35/B IMPULSE CARTRIDGE	A		-	-	-	0.000	2,000,000	5.000	0.000	2,311,765	5.895	0.000	3,500,000	5.000	-	-	0.000	0.000	3,500,000	5.000
Subtotal: Uncategorized			-	-	-	-	-	5.000	-	-	5.895	-	-	5.000	-	-	0.000	-	-	5.000
Total			-	-	-	-	-	5.000	-	-	5.895	-	-	5.000	-	-	0.000	-	-	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: FY 2018 Air Force															Date: May 2017				
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				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(SS-27) BBU-48/B IMPULSE CARTRIDGE	A		-	-	-	0.000	505,879	4.500	0.000	444,939	4.000	0.000	440,613	4.000	-	-	-	0.000	440,613	4.000
Subtotal: Uncategorized			-	-	-	-	-	4.500	-	-	4.000	-	-	4.000	-	-	-	-	-	4.000
Total			-	-	-	-	-	4.500	-	-	4.000	-	-	4.000	-	-	-	-	-	4.000

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

Remarks:
(SS-27) BBU-48/B IMPULSE CARTRIDGE FY18 funding was moved to Cartridges (Items Less Than \$5 Million).

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force															Date: May 2017				
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AMMUNITION CARTRIDGES																				
(A014) CTG, 12 GA SHOTGUN, 7-1//2 PLASTIC	A		-	-	-	-	-	0.000	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000
(A017) CTG, 12 GA BUCKSHOT	A		-	-	-	0.000	32,258	0.010	0.000	33,333	0.010	0.000	16,890	0.010	-	-	0.000	0.000	16,890	0.010
(A062) CTG, 5.56MM BALL M855 LINKED	A		-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000
(A080) CTG, 5.56MM BLANK M200	A		-	-	-	-	-	-	0.000	3,666,666	0.550	-	-	0.000	-	-	0.000	-	-	0.000
(A091) CTG, .22 CAL LONG RIFLE	A		-	-	-	0.000	117,647	0.020	0.000	1,718,750	0.275	0.000	812,500	0.195	-	-	0.000	0.000	812,500	0.195
(A131) CTG, 7.62MM BALL 4-1 LINKED	A		-	-	-	0.000	1,724,138	1.000	0.000	1,428,571	0.800	0.000	3,389,830	2.000	-	-	0.000	0.000	3,389,830	2.000
(A143) 7.62MM BALL LINKED (M80)	A		-	-	-	-	-	-	-	-	-	0.000	5,454,400	3.000	-	-	0.000	0.000	5,454,400	3.000
(A164) CTG, 7.62MM LINKED	A		-	-	-	0.000	3,703,704	2.000	0.000	1,923,076	1.000	-	-	0.000	-	-	0.000	-	-	0.000
(A246) CTG, .30 CAL BALL BULK	A		-	-	-	-	-	-	-	-	-	0.000	38,461	0.010	-	-	0.000	0.000	38,461	0.010
(A257) CTG, 7.62MM 9-1 DIM TRACER	A		-	-	-	0.000	471,698	0.250	0.000	471,698	0.250	0.000	363,538	0.200	-	-	0.000	0.000	363,538	0.200
(A363) 9MM BALL NATO XM882 PISTOL	A		-	-	-	0.000	10,000,000	2.000	0.000	5,000,000	1.000	0.000	3,750,000	0.750	-	-	0.000	0.000	3,750,000	0.750
(A404) CTG, .38 CAL SP BALL WADCUTTER	A		-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000
(A475) CTG, CAL .45 BALL M1911	A		-	-	-	-	-	-	0.000	538,461	0.350	-	-	0.000	-	-	0.000	-	-	0.000
(A482) CTG CAL .45 BALL WADCUTTER	A		-	-	-	0.000	480,769	0.250	0.000	480,769	0.250	-	-	0.000	-	-	0.000	-	-	0.000
(A483) CTG CAL .45 BALL M1911 MTCHGRD	A		-	-	-	0.000	735,294	0.250	0.000	197,368	0.075	-	-	0.000	-	-	0.000	-	-	0.000
(A552) CTG, .50 CAL BALL SINGLE ROUND, M33	A		-	-	-	0.000	365,854	0.750	0.000	268,292	0.550	-	-	0.000	-	-	0.000	-	-	0.000
(A555) CTG, CAL .50 BALL M2 LINKED	A		-	-	-	0.000	1,489,362	3.500	0.000	1,666,666	3.500	-	-	0.000	-	-	0.000	-	-	0.000
(A557) CTG, CAL .50 BALL/TRACER/ LINKED M2/M9	A		-	-	-	0.000	1,225,490	2.500	0.000	1,141,552	2.500	0.000	923,538	2.000	-	-	0.000	0.000	923,538	2.000

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

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)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
CTG CAL.50 BLNK CRMPD W/M9 LNK	A		-	-	-	-	-	0.000	-	-	0.000	0.000	191,387	0.400	-	-	-	0.000	191,387	0.400
(A606) CTG, CAL.50 API MK211 MOD 0	A		-	-	-	0.000	91,912	1.000	0.000	68,933	0.750	-	-	0.000	-	-	0.000	-	-	0.000
(A607) CTG, .50 CAL ARMOR PIERCING INCENDIARY	A		-	-	-	0.000	125,000	1.000	0.000	94,696	0.750	0.000	75,835	0.600	-	-	0.000	0.000	75,835	0.600
(AA02) CTG 5.56MM AP/TR M995/M856 4-1	A		-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000
(AA03) CTG, 7.62 M993 AP	A		-	-	-	0.000	34,482	0.100	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000
(AA04) CTG, 7.62MM 4 AP M9331/1TR M62 W/LK M13	A		-	-	-	0.000	12,494	0.300	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000
(AA11) CTG, 7.62 NATO M118 SPEC BALL	A		-	-	-	0.000	1,492,537	1.000	0.000	746,268	0.500	-	-	0.000	-	-	0.000	-	-	0.000
(AA16) 9 MILLIME CARTRIDGE FRANG	A		-	-	-	0.000	9,126,666	2.738	0.000	9,166,667	2.750	0.000	8,387,096	2.600	-	-	0.000	0.000	8,387,096	2.600
(AA51) 12 GA NON-LETHAL PT-CONT	A		-	-	-	0.000	141,509	0.300	0.000	46,511	0.100	0.000	16,129	0.035	-	-	0.000	0.000	16,129	0.035
(AA52) 12 GA NON-LETHAL CROWD	A		-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000
(AA53) CTG 5.56 SPECIAL MK262 MOD 1	A		-	-	-	0.000	423,729	0.250	0.000	1,271,186	0.750	0.000	834,724	0.500	-	-	0.000	0.000	834,724	0.500
(AB10) 5.56 RED MARKING CARTRIDGES	A		-	-	-	0.000	1,428,571	1.000	0.000	1,265,822	1.000	0.000	4,838,709	3.000	-	-	0.000	0.000	4,838,709	3.000
(AB13) 9MM BLUE MARKING CARTRIDGE	A		-	-	-	0.000	1,612,903	1.000	0.000	3,906,250	2.500	0.000	3,333,333	2.000	-	-	0.000	0.000	3,333,333	2.000
(AB14) 9M RED MARKING CARTRIDGE	A		-	-	-	0.000	1,612,903	1.000	0.000	5,384,615	3.500	0.000	3,346,552	2.000	-	-	0.000	0.000	3,346,552	2.000
(AB39) 7.62MM SPECIAL BALL, LONG RANGE	A		-	-	-	0.000	61,576	2.000	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000
(AB56) 5.56MM M855A1 LINKED LEAD FREE CART	A		-	-	-	0.000	4,166,666	1.500	0.000	2,777,777	1.000	0.000	2,805,897	1.000	-	-	0.000	0.000	2,805,897	1.000
(AB46) 5.56MM SINGLE ROUND DUMMY	A		-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

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)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
(AB47) 7.62MM DUMMY	A		-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000
(AB48) .50 CAL SINGLE DUMMY CART	A		-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000
(AB72) CTG, 7.62MM SINGLE ROUND BLANK (was A112)	A		-	-	-	-	-	0.000	294,117	0.100	-	-	0.000	-	-	0.000	-	-	0.000	
(B519) CARTRIDGE, 40MM PRACTICE M781	A		-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000
(B535) 40MM SWS M583	A		-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000
(B542) 40 MIL CARTRIDGE HEDP	A		-	-	-	0.000	6,645	0.300	0.000	21,901	1.000	0.000	45,399	3.000	-	-	0.000	0.000	45,399	3.000
(B576) CTG, 40MM PRACTICE, LINKED, HIGH VELOCITY	A		-	-	-	0.000	101,010	2.000	0.000	101,010	2.000	-	-	0.000	-	-	0.000	-	-	0.000
AIR FORCE SHOOTING TEAM	A		-	-	-	-	-	-	-	-	0.140	-	-	0.101	-	-	0.000	-	-	0.101
(BA21) 40MM PRACTICE, DAY/ NIGHT LINKED	A		-	-	-	-	-	-	0.000	10,387	0.338	-	-	0.000	-	-	0.000	-	-	0.000
(LA51) SIMULATOR, SMALL ARMS FIRE	A		-	-	-	-	-	0.070	-	-	0.100	-	-	0.000	-	-	0.000	-	-	0.000
(LA52) SIMULATOR, SMALL ARMS FIRE	A		-	-	-	-	-	0.070	-	-	0.100	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: AMMUNITION CARTRIDGES			-	-	-	-	-	28.158	-	-	28.488	-	-	23.401	-	-	0.000	-	-	23.401
IMPULSE CARTRIDGES																				
(3W37) CHAFF, RR-188	A		-	-	-	0.000	600,600	2.000	0.000	1,008,174	3.700	0.000	1,008,174	3.700	-	-	0.000	0.000	1,008,174	3.700
(JN31) CU-168 SQUIB	A		-	-	-	0.001	3,332	2.000	0.001	3,606	2.000	0.001	3,606	2.000	-	-	0.000	0.001	3,606	2.000
(WA83) CCU-136	A		-	-	-	-	-	-	0.000	2,717	0.010	0.000	2,717	0.010	-	-	0.000	0.000	2,717	0.010
(WB24) CCU-145	A		-	-	-	-	-	-	0.000	37,664	0.200	0.000	37,664	0.200	-	-	0.000	0.000	37,664	0.200
(M943) MK107 IMPULSE CARTRIDGE	A		-	-	-	0.000	4,377	1.500	0.000	4,329	1.500	0.000	4,329	1.500	-	-	0.000	0.000	4,329	1.500
(MF60) CTG 25MM TP PGU-23/U	A		-	-	-	-	-	-	0.000	28,968	0.250	0.000	28,968	0.250	-	-	0.000	0.000	28,968	0.250
(MT40) BBU-46 SQUIB, ELECTRIC	A		-	-	-	0.000	2,529	0.200	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force															Date: May 2017				
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
(NY02) CHAFF, RR-196(T-1)AL	A		-	-	-	-	-	-	0.000	74,313	3.000	0.000	74,313	3.000	-	-	0.000	0.000	74,313	3.000
(SS44) BBU63/B IMPULSE CARTRIDGE	A		-	-	-	0.001	3,743	2.000	0.001	3,702	2.000	0.001	3,702	2.000	-	-	0.000	0.001	3,702	2.000
(SY16) RR-180 CHAFF CARTRIDGE	A		-	-	-	0.000	262,329	2.500	0.000	264,270	2.500	0.000	264,270	2.500	-	-	0.000	0.000	264,270	2.500
Subtotal: IMPULSE CARTRIDGES			-	-	-	-	-	10.200	-	-	15.160	-	-	15.160	-	-	0.000	-	-	15.160
Medium Cal																				
(A931) CTG 20MM DUMMY PGU-39/B	A		-	-	-	-	-	-	0.000	567,843	4.000	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Medium Cal			-	-	-	-	-	-	-	-	4.000	-	-	0.000	-	-	0.000	-	-	0.000
Total			-	-	-	-	-	38.358	-	-	47.648	-	-	38.561	-	-	0.000	-	-	38.561

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 353010 / Practice Bombs
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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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	89.759	97.106	28.509	0.000	28.509	29.827	29.567	30.123	30.669	-	335.560
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	89.759	97.106	28.509	0.000	28.509	29.827	29.567	30.123	30.669	-	335.560
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	89.759	97.106	28.509	0.000	28.509	29.827	29.567	30.123	30.669	-	335.560

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

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

- BDU-56A/B: A 2,000-pound thick-wall cast ductile iron, non-explosive training shape used to provide combat air forces with aircrew weapons delivery training. The BDU-56 simulates the drop trajectory of a live MK-84. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.

- BDU-50C/B: A 500-pound thick-wall cast ductile iron, non-explosive training shape used to provide combat air forces with aircrew weapons delivery training. The BDU-50 simulates the drop trajectory of a live MK-82. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.

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.

Funding for this exhibit contained in PE 0207599F.

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 353010 / Practice Bombs
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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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	(ED12) BDU-56A/B, 2000LB PRAC BOMB		A		- / 0.000	- / 1.750	- / 2.000	- / 2.000	- / 0.000	- / 2.000
P-5	(ED96) BDU-50 2000LB CDI PRAC BOMB	P-5a	A		- / -	- / 88.009	- / 95.105	- / 26.225	- / 0.000	- / 26.225
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 89.759	- / 97.106	- / 28.509	- / 0.000	- / 28.509

*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:

FY2018 funding purchases BDU-56 A/B and BDU-50 C/B pound non-explosive training bombs to provide combat air forces with weapons build-up and aircrew weapons delivery training. These practice bombs simulate drop trajectory and weight of explosive-filled weapons.

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.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353010 / Practice Bombs	Item Number / Title [DODIC]: - / (ED12) BDU-56A/B, 2000LB PRAC BOMB

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	1.750	2.000	2.000	0.000	2.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	1.750	2.000	2.000	0.000	2.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	1.750	2.000	2.000	0.000	2.000

(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 Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	-	-	0.000	0.008	172	1.388	0.008	239	1.872	0.007	255	1.833	-	-	0.000	0.007	255	1.833
LUG SUSP ACFT ORD MK3-0	-	-	0.000	0.000	346	0.020	0.000	482	0.028	0.000	515	0.033	-	-	0.000	0.000	515	0.033
PALLET MK79-1	-	-	0.000	0.001	85	0.069	0.001	120	0.095	0.001	128	0.124	-	-	0.000	0.001	128	0.124
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	1.477	-	-	1.994	-	-	1.990	-	-	0.000	-	-	1.990
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	0.000	-	-	1.477	-	-	1.994	-	-	1.990	-	-	0.000	-	-	1.990
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
QUALITY ASSURANCE	-	-	0.000	-	-	0.002	-	-	0.006	-	-	0.010	-	-	0.000	-	-	0.010
FIRST ARTICLE TEST	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
NAVY ENGINEERING SUPPORT	-	-	0.000	-	-	0.271	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	0.000	-	-	0.273	-	-	0.006	-	-	0.010	-	-	0.000	-	-	0.010
Gross/Weapon System Cost	-	-	0.000	-	-	1.750	-	-	2.000	-	-	2.000	-	-	0.000	-	-	2.000

Remarks:

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353010 / Practice Bombs	Item Number / Title [DODIC]: - / (ED12) BDU-56A/B, 2000LB PRAC BOMB
ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:	
<p>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, non-explosive fill material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack the Air Force order.</p> <p>The load, assemble, pack (LAP) quantity is the number of completed rounds to be delivered into the AF inventory. The ammunition production plant provides the LAP price to SMCA, which includes cost to receive bomb bodies and for non-explosive fill materials and packing materials used to produce an inventory-worthy round.</p> <p>Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).</p>		

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353010 / Practice Bombs	Item Number / Title [DODIC]: - / (ED96) BDU-50 2000LB CDI PRAC BOMB

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	88.009	95.105	26.225	0.000	26.225
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	88.009	95.105	26.225	0.000	26.225
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	88.009	95.105	26.225	0.000	26.225

(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 Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	-	0.003	26,972	85.232	0.003	30,315	91.889	0.002	12,235	24.492	-	-	0.000	0.002	12,235	24.492
LUG SUSP ACFT ORD MS3314	-	-	-	0.000	54,483	1.743	0.000	61,694	1.895	0.000	24,470	0.836	-	-	0.000	0.000	24,470	0.836
PALLET INSPECTION, MHU-149/E	-	-	-	0.000	4,585	0.798	0.000	1,372	0.189	0.000	2,081	0.499	-	-	0.000	0.000	2,081	0.499
PALLET MHU-149/E	-	-	-	-	-	-	0.000	3,157	0.758	0.000	2,081	0.392	-	-	0.000	0.000	2,081	0.392
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	87.773	-	-	94.731	-	-	26.220	-	-	0.000	-	-	26.220
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	87.773	-	-	94.731	-	-	26.220	-	-	0.000	-	-	26.220
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.003	-	-	0.004	-	-	0.005	-	-	0.000	-	-	0.005
FIRST ARTICLE TEST	-	-	-	-	-	-	-	-	0.137	-	-	0.000	-	-	0.000	-	-	0.000
NAVY ENGINEERING SUPPORT	-	-	-	-	-	0.233	-	-	0.233	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.236	-	-	0.374	-	-	0.005	-	-	0.000	-	-	0.005
Gross/Weapon System Cost	-	-	-	-	-	88.009	-	-	95.105	-	-	26.225	-	-	0.000	-	-	26.225

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353010 / Practice Bombs	Item Number / Title [DODIC]: - / (ED96) BDU-50 2000LB CDI PRAC BOMB
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
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, non-explosive fill 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). The load, assemble, pack (LAP) quantity is the number of completed rounds to be delivered into the AF inventory. The ammunition production plant provides the LAP price to SMCA, which includes cost to receive bomb bodies and for miscellaneous explosives, fillers and packing materials and bomb lugs used to produce an inventory-worthy round. The BDU-50C/B Cast Ductile Iron (CDI) Practice Bomb contains no explosive fill materials, however, the SMCA generically terms the process of assembling the various components (bomb body, lugs, etc),and "package/palletize" the end item as "Load, Assemble and Pack (LAP), applicable to both general purpose and practice bombs. (t) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force							Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13			P-1 Line Item Number / Title: 353010 / Practice Bombs				Item Number / Title [DODIC]: - / (ED96) BDU-50 2000LB CDI PRAC BOMB				

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 (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2016	ALLIED MECHANICAL WISCONSIN / APPLETON, WISCONSIN	MIPR	ACC-ROCK ISLAND	Apr 2016	Apr 2017	26,972	0.003	Y		
LOAD, ASSEMBLE, PACK (LAP)		2017	ALLIED MECHANICAL WISCONSIN / APPLETON, WISCONSIN	MIPR	ACC-ROCK ISLAND	Apr 2017	Mar 2018	30,315	0.003	Y		
LOAD, ASSEMBLE, PACK (LAP)		2018	ALLIED MECHANICAL WISCONSIN / APPLETON, WISCONSIN	MIPR	ACC-ROCK ISLAND	Jan 2018	Mar 2018	12,235	0.002	Y		

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 353020 / General Purpose Bombs
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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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	633.987	649.482	329.501	0.000	329.501	261.186	366.000	489.606	540.472	-	3,270.234
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	633.987	649.482	329.501	0.000	329.501	261.186	366.000	489.606	540.472	-	3,270.234
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	633.987	649.482	329.501	0.000	329.501	261.186	366.000	489.606	540.472	-	3,270.234

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

PY funding totals include \$17.031M requested for Overseas Contingency Operations.
CY funding totals include \$7.921M requested for Overseas Contingency Operations.

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

-MXU-651 B/B (EC31/EC28) is an airfoil group consisting of an aft wing assembly, forward canards and attaching hardware needed to assemble a GBU-10 Laser Guided Bomb, (BLU-109 2000lb Hard Target Penetrator Bomb or MK84 2000lb class bomb). The system has folding wings which open upon release for increased maneuverability. This item is procured by Munitions Sustainment Division at Hill AFB.

-MXU-650 Fin Assembly kit (EC32) consists of a tail fin, forward canards and attachment hardware needed to assemble the GBU-12 (MK-82 Warhead, 500lb class) Laser Guided Bomb (LGB). This Fin assembly kit, coupled with a Computer Control Group (ED58) complete the GBU-12 weapons build. These weapons are primarily used for precision bombing against non-hardened targets. This item is procured by Munitions Sustainment Division at Hill AFB.

-MAU-209/MAU-169 (ED58) GBU-10/12 Computer Control Group is a laser homing guidance unit used on the GBU-10 and GBU-12 Laser Guided Bombs, (GBU-10, MK-84 Warhead, 2000lb class or GBU-12, MK-82 Warhead, 500lb class). The system has folding wings which open upon release for maneuverability and increased aircraft payload. This item is procured by Hill AFB. Laser Guided Bombs are essential to meeting training, operational and inventory objective requirements worldwide for precision bombing against hardened and non-hardened targets. Yearly procurements ensure the necessary stock on hand to meet these requirements. Paveway II telemetry (TM) kits are radio monitored modules installed in the GBU-10, 12 and 16 weapon systems that monitor and track data during flight. They provide essential data for issues such as flight failures and weapon accuracy as well as data for the long term sustainment of the weapon system.

-GBU-49; The Enhanced Paveway II kit for the GBU-49 consists of a MAU-210 G/B Enhanced Computer Control Group (ECCG) and an MXU-650 M/B Air Foil Group (AFG). The ECCG and AFG provide GPS-aided INS and laser terminal guidance capabilities to enable the GBU-49 to engage fixed, re-locatable, and moving targets.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs		P-1 Line Item Number / Title: 353020 / General Purpose Bombs
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>-BLU-117 (ED09) is a 2,000-pound class general purpose bomb. The bomb produces blast and fragmentation effects and can be used as either an unguided high or low drag weapon. When used with a guidance kit, it can be employed as a precision guided bomb. The warhead is used on the GBU-10/12 (PAVEWAY) and Joint Direct Attack Munition weapon systems. The BLU-117 can also be fuzed with proximity, instantaneous, or delayed fuzes to provide a variety of military effects. This item is procured through the Army Single Manager for Conventional Ammunition (SMCA).</p> <p>-BLU-111 (ED15) is a thermally-protected General Purpose Bomb, identical to the MK-82 (500 lb bomb), except for type of explosive filler (PBXN-109 vs Tritonal) and vented aft closure. It has a relatively thin case with a slender body designed for improved ballistics. Employed as general purpose bombs delivered in high and low drag modes with ground burst, delayed, or air burst fuzes and as precision guided munitions and aerial mines depending on the fin/airfoil group and fuzing. This item is procured through the Army Single Manager for Conventional Ammunition (SMCA).</p> <p>-BLU-109 (ED49) warhead is a 2000-pound hard target penetrator bomb designed with Insensitive Munitions (IM) technology. It is a penetrator weapon used against bunkers, aircraft shelters, and reinforced concrete structures. The warhead is used on the GBU-10, 24, and 27 as well as Joint Direct Attack Munition (JDAM) GBU-31V3 weapon systems. This item is procured through the Army Single Manager for Conventional Ammunition (SMCA).</p> <p>--The advanced 2000-pound (A2K) penetrator (designated the BLU-137/B) will begin to replace the BLU-109 C/B in FY18. The BLU-137/B is currently only compatible with the JDAM guidance kit.</p> <p>-BLU-129/B (ED78) Composite Case Warhead - Carbon fiber composite case for high near-field lethality to deliver 3x reduction in collateral damage. The weapon supports an urgent need for a very low collateral damage weapon. The program is dependent on field stated quantity requirements. AFLCMC/EBDW is overseeing production execution; planned future transition to Hill (AFLCMC/EBH) for any future procurement.</p> <p>-BLU-134/B Improved Lethality Warhead (ILW), an area attack employed, near-term solution, 500 lb warhead for improved anti-personnel anti-material (APAM) target lethality which meets DoD polity on cluster munitions. Continuing manufacturing development of BLU-134/B ILW with 60 test assets due 13 Jun 17. This item will be procured through AFLCMC/EBDW at Eglin AFB and will transition to Hill (AFLCMC/EBH) for any future procurement.</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>Portion of FY18-FY22 funding will be used for facilitization efforts. This will enhance production line capacity required to replenish inventory.</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: 0208030F, 0207599F</p>		

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force	Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 353020 / General Purpose Bombs

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

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	(EC32) MXU-650 GCG, FIN ASSEMBLY				- / -	- / 22.235	- / 20.640	- / 18.000	- / 0.000	- / 18.000
P-5	(ED09) BLU-117, 2000LB GP BOMB		A		- / -	- / 385.727	- / 376.336	- / 32.603	- / 0.000	- / 32.603
P-5	(ED15) BLU-111A/B 500LB GP BOMB		A		- / -	- / 44.873	- / 5.000	- / 5.000	- / 0.000	- / 5.000
P-5	(ED49) BLU-109 2000 LB HARD TARGET BOMB	P-5a	A		- / -	- / 110.001	- / 97.000	- / 70.000	- / 0.000	- / 70.000
P-40a	(ED58) MAU-209C/B CCG				- / -	- / 44.235	- / 45.281	- / 25.000	- / 0.000	- / 25.000
P-40a	(ED78) BLU-129/B 500LB BOMB				- / -	- / 8.125	- / 8.125	- / 8.125	- / 0.000	- / 8.125
P-40a	BLU-134/B CDI 500LB				- / -	- / 0.000	- / 80.000	- / 81.573	- / 0.000	- / 81.573
P-40a	GBU-49				- / -	- / -	- / 0.000	- / 72.000	- / 0.000	- / 72.000
P-40a	GENERAL PURPOSE BOMBS (ITEMS LESS THAN \$5 MILLION)				- / -	- / 18.791	- / 17.100	- / 17.200	- / 0.000	- / 17.200
P-40	Total Gross/Weapon System Cost				- / -	- / 633.987	- / 649.482	- / 329.501	- / 0.000	- / 329.501

*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:
 FY2018 purchases 500, 1,000 and 2,000 pound conventional general purpose bombs, and guidance and control kits to provide precision bombing capabilities; additionally, equipment or support required to enhance production line capacity as required by inventory replenishment. These weapons are used to defeat non-hard, hardened and deeply buried targets, bunkers, aircraft shelters, reinforced concrete structures and various armored targets. Built up with assorted componentry, the bombs can also be employed as Joint Direct Attack Munitions or Laser Guided Bombs.

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.

Procurement/Replenishment is required to maintain readiness objectives and worldwide war reserve materiel (WRM) stockpiles to support requirements for penetrator bombs, low collateral damage bombs, and multiple precision guided bomb configurations as determined by the non-nuclear consumables annual analysis (NCAA), to execute DoD approved combat plans and training requirements.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 **P-1 Line Item Number / Title:** 353020 / General Purpose Bombs **Aggregated Items Title:** (EC32) MXU-650 GCG, FIN ASSEMBLY

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
MXU-650 FIN ASSEMBLY - EC32	A		-	-	-	0.004	5,580	22.235	0.004	4,832	20.640	0.004	4,500	18.000	-	-	0.000	0.004	4,500	18.000
Subtotal: Uncategorized			-	-	-	-	-	22.235	-	-	20.640	-	-	18.000	-	-	0.000	-	-	18.000
Total			-	-	-	-	-	22.235	-	-	20.640	-	-	18.000	-	-	0.000	-	-	18.000

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

Remarks:

Prices shown reflect the average unit cost of split-award contracts plus inflation. Due to the competitive nature of the currently qualified vendors, estimated unit cost information from the vendors is not available for planning purposes.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Item Number / Title [DODIC]: - / (ED09) BLU-117, 2000LB GP BOMB

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	385.727	376.336	32.603	0.000	32.603
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	385.727	376.336	32.603	0.000	32.603
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	385.727	376.336	32.603	0.000	32.603

(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 Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	-	-	-	0.005	14,965	79.680	0.005	14,860	81.156	0.005	1,302	6.638	-	-	0.000	0.005	1,302	6.638
BOMB BODY 2000LB MK84 MOD 10 IM	-	-	-	0.007	14,970	107.990	0.006	14,860	94.081	0.005	1,302	7.031	-	-	0.000	0.005	1,302	7.031
LUG SUSP ACFT ORD MK3-0	-	-	-	0.000	29,940	1.782	0.000	29,720	1.702	0.000	2,604	0.166	-	-	0.000	0.000	2,604	0.166
CXM-AF7	-	-	-	0.000	10,299,360	189.920	0.000	10,223,680	193.125	0.000	895,776	18.014	-	-	0.000	0.000	895,776	18.014
PALLET MK79-1	-	-	-	0.001	7,485	6.077	0.001	7,430	5.856	0.001	651	0.630	-	-	0.000	0.001	651	0.630
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	385.449	-	-	375.921	-	-	32.479	-	-	0.000	-	-	32.479
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	385.449	-	-	375.921	-	-	32.479	-	-	0.000	-	-	32.479
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.242	-	-	0.372	-	-	0.106	-	-	0.000	-	-	0.106
QUALITY ASSURANCE	-	-	-	-	-	0.003	-	-	0.004	-	-	0.003	-	-	0.000	-	-	0.003
FIRST ARTICLE TEST	-	-	-	-	-	0.033	-	-	0.039	-	-	0.015	-	-	0.000	-	-	0.015
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.278	-	-	0.415	-	-	0.124	-	-	0.000	-	-	0.124
Gross/Weapon System Cost	-	-	-	-	-	385.727	-	-	376.336	-	-	32.603	-	-	0.000	-	-	32.603

Remarks:

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Item Number / Title [DODIC]: - / (ED09) BLU-117, 2000LB GP BOMB
ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:	
<p>This cost analysis represents the Single Manager for Conventional Ammunition (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 (LAP) the Air Force order.</p> <p>The load, assemble, pack (LAP) quantity is the number of completed rounds to be delivered into the AF inventory. The ammunition production plant provides the LAP price to SMCA, which includes cost to receive bomb bodies and for miscellaneous explosives, fillers and packing materials used to produce an inventory-worthy round.</p> <p>Bomb Body price, provided by the manufacturer to SMCA, is the unit price of an empty bomb body/casing. Developing the cost for a completed round, SMCA applies a Production Loss Factor (PLF) to estimate an additional quantity of bomb bodies/casings to mitigate risks during production of complete rounds. Risks may include defective bomb body or need to replace the body after filled with a nonconforming batch of explosives.</p> <p>Primary cost drivers include the total military customer orders (increases/decreases), complex or scarce materials, economic price adjustments, currency rate fluctuations.</p>		

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Item Number / Title [DODIC]: - / (ED15) BLU-111A/B 500LB GP BOMB

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	44.873	5.000	5.000	0.000	5.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	44.873	5.000	5.000	0.000	5.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	44.873	5.000	5.000	0.000	5.000

(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 Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	-	-	-	0.002	3,091	4.839	0.002	815	1.283	0.002	787	1.234	-	-	0.000	0.002	787	1.234
BOMB BODY 500 LB MK82 MOD 6 IM	-	-	-	0.002	3,091	7.653	0.002	815	1.865	0.002	787	1.954	-	-	0.000	0.002	787	1.954
LUG SUSP ACFT ORD MS3314	-	-	-	0.000	6,182	0.197	0.000	1,631	0.050	0.000	1,574	0.054	-	-	0.000	0.000	1,574	0.054
CXM-7	-	-	-	0.000	2,126,608	31.282	0.000	106,022	1.740	0.000	102,310	1.566	-	-	0.000	0.000	102,310	1.566
PALLET INSPECTION, MHU-122E	-	-	-	0.000	1,546	0.281	0.000	136	0.026	0.000	131	0.025	-	-	0.000	0.000	131	0.025
PALLET MHU-122/E	-	-	-	0.000	1,546	0.371	-	-	-	0.000	131	0.031	-	-	0.000	0.000	131	0.031
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	44.624	-	-	4.964	-	-	4.864	-	-	0.000	-	-	4.864
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	44.624	-	-	4.964	-	-	4.864	-	-	0.000	-	-	4.864
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.207	-	-	0.022	-	-	0.069	-	-	0.000	-	-	0.069
QUALITY ASSURANCE	-	-	-	-	-	0.007	-	-	0.001	-	-	0.004	-	-	0.000	-	-	0.004
FIRST ARTICLE TEST	-	-	-	-	-	0.035	-	-	0.013	-	-	0.047	-	-	0.000	-	-	0.047
ACCEPTANCE TESTING	-	-	-	-	-	-	-	-	-	-	-	0.016	-	-	0.000	-	-	0.016
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.249	-	-	0.036	-	-	0.136	-	-	0.000	-	-	0.136
Gross/Weapon System Cost	-	-	-	-	-	44.873	-	-	5.000	-	-	5.000	-	-	0.000	-	-	5.000

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Item Number / Title [DODIC]: - / (ED15) BLU-111A/B 500LB GP BOMB
ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:	
Remarks: This cost analysis represents the Single Manager for Conventional Ammunition (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 (LAP) the Air Force order. The load, assemble, pack (LAP) quantity is the number of completed rounds to be delivered into the AF inventory. The ammunition production plant provides the LAP price to SMCA, which includes cost to receive bomb bodies and for miscellaneous explosives, fillers and packing materials used to produce an inventory-worthy round. Bomb Body price, provided by the manufacturer to SMCA, is the unit price of an empty bomb body/casing. Developing the cost for a completed round, SMCA applies a Production Loss Factor (PLF) to estimate an additional quantity of bomb bodies/casings to mitigate risks during production of complete rounds. Risks may include defective bomb body or need to replace the body after filled with a nonconforming batch of explosives. Primary cost drivers include the total military customer orders (increases/decreases), complex or scarce materials, economic price adjustments, currency rate fluctuations.		

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13		P-1 Line Item Number / Title: 353020 / General Purpose Bombs
		Item Number / Title [DODIC]: - / (ED49) BLU-109 2000 LB HARD TARGET BOMB

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	110.001	97.000	70.000	0.000	70.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	110.001	97.000	70.000	0.000	70.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	110.001	97.000	70.000	0.000	70.000

(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 Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK ^(†)	-	-	-	0.009	3,492	31.170	0.011	2,870	30.417	0.008	2,045	16.478	-	-	0.000	0.008	2,045	16.478
BOMB BODY, 2000LB BLU-109/B	-	-	-	0.018	3,492	61.881	0.018	2,870	51.657	0.021	2,045	42.415	-	-	0.000	0.021	2,045	42.415
CONTAINER, CNU-417/E	-	-	-	0.002	1,746	4.187	0.002	1,435	3.495	0.002	1,023	2.231	-	-	0.000	0.002	1,023	2.231
CXM-AF-5	-	-	-	0.000	593,640	12.633	0.000	487,900	11.163	0.000	347,650	8.476	-	-	0.000	0.000	347,650	8.476
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	109.871	-	-	96.732	-	-	69.600	-	-	0.000	-	-	69.600
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	109.871	-	-	96.732	-	-	69.600	-	-	0.000	-	-	69.600
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.118	-	-	0.127	-	-	0.264	-	-	0.000	-	-	0.264
QUALITY ASSURANCE	-	-	-	-	-	0.012	-	-	0.029	-	-	0.026	-	-	0.000	-	-	0.026
FIRST ARTICLE TEST	-	-	-	-	-	0.000	-	-	0.112	-	-	0.110	-	-	0.000	-	-	0.110
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.130	-	-	0.268	-	-	0.400	-	-	0.000	-	-	0.400
Gross/Weapon System Cost	-	-	-	-	-	110.001	-	-	97.000	-	-	70.000	-	-	0.000	-	-	70.000

Remarks:

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Item Number / Title [DODIC]: - / (ED49) BLU-109 2000 LB HARD TARGET BOMB
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<p>This cost analysis represents the Single Manager for Conventional Ammunition (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 (LAP) the Air Force order.</p> <p>The load, assemble, pack (LAP) quantity is the number of completed rounds to be delivered into the AF inventory. The ammunition production plant provides the LAP price to SMCA, which includes cost to receive bomb bodies and for miscellaneous explosives, fillers and packing materials used to produce an inventory-worthy round.</p> <p>Bomb Body price, provided by the manufacturer to SMCA, is the unit price of an empty bomb body/casing. Developing the cost for a completed round, SMCA applies a Production Loss Factor (PLF) to estimate an additional quantity of bomb bodies/casings to mitigate risks during production of complete rounds. Risks may include defective bomb body or need to replace the body after filled with a nonconforming batch of explosives.</p> <p>Primary cost drivers include the total military customer orders (increases/decreases), complex or scarce materials, economic price adjustments, currency rate fluctuations.</p> <p>The BLU-137/B advanced 2,000-lb (A2K) penetrating bomb will begin to replace the BLU-109 C/B in FY18. The BLU-137/B will be initially procured through AFLCMC/EBD at Eglin AFB and will transition to Hill (AFLCMC/EBH) for future procurement. The BLU-137/B is currently only compatible with the JDAM guidance kit.</p> <p>(t) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force							Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13			P-1 Line Item Number / Title: 353020 / General Purpose Bombs				Item Number / Title [DODIC]: - / (ED49) BLU-109 2000 LB HARD TARGET BOMB				

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 (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK		2016	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jul 2016	Jul 2017	3,492	0.009	Y		
LOAD, ASSEMBLE, PACK		2017	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2017	Jul 2018	2,870	0.011	Y		
LOAD, ASSEMBLE, PACK		2018	MCALESTER ARMY AMMUNITIONS PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2018	Jul 2019	2,045	0.008	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 **P-1 Line Item Number / Title:** 353020 / General Purpose Bombs **Aggregated Items Title:** (ED58) MAU-209C/B CCG

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
MAU-209C/B - ED58	A		-	-	-	0.007	5,995	44.235	0.005	8,446	45.281	0.007	3,571	25.000	-	-	0.000	0.007	3,571	25.000
Subtotal: Uncategorized			-	-	-	-	-	44.235	-	-	45.281	-	-	25.000	-	-	0.000	-	-	25.000
Total			-	-	-	-	-	44.235	-	-	45.281	-	-	25.000	-	-	0.000	-	-	25.000

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

Remarks:

Prices shown reflect the average unit cost of split-award contracts plus inflation. Due to the competitive nature of the currently qualified vendors, estimated unit costs are not available for planning purposes.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Aggregated Items Title: (ED78) BLU-129/B 500LB BOMB
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BLU-129/B 500LB BOMB	A		-	-	-	0.116	70	8.125	0.116	70	8.125	0.116	70	8.125	-	-	0.000	0.116	70	8.125
Subtotal: Uncategorized			-	-	-	-	-	8.125	-	-	8.125	-	-	8.125	-	-	0.000	-	-	8.125
Total			-	-	-	-	-	8.125	-	-	8.125	-	-	8.125	-	-	0.000	-	-	8.125

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

Remarks:

BLU-129/B Composite Case Warhead - carbon fiber composite case for high near-field lethality to deliver 3x reduction in collateral damage. The BLU-129/B Program Office awarded a one-time firm-fixed price contract to GD-OTS for 500 BLU-129/B Warhead Cases on 27 Jan 17.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Aggregated Items Title: BLU-134/B CDI 500LB
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BLU-134/B, CDI 500 lb	A		-	-	-	-	-	0.000	0.009	8,449	80.000	0.009	8,616	81.573	-	-	0.000	0.009	8,616	81.573
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	80.000	-	-	81.573	-	-	0.000	-	-	81.573
Total			-	-	-	-	-	0.000	-	-	80.000	-	-	81.573	-	-	0.000	-	-	81.573

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

Remarks:

BLU-134/B Improved Lethality Warhead (ILW), an area attack employed, near-term solution, 500 lb warhead for improved anti-personnel anti-material (APAM) target lethality which meets DoD policy on cluster munitions.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Aggregated Items Title: GBU-49
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
GBU-49	A		-	-	-	-	-	-	-	-	0.000	-	-	72.000	-	-	0.000	-	-	72.000
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	0.000	-	-	72.000	-	-	0.000	-	-	72.000
Total			-	-	-	-	-	-	-	-	0.000	-	-	72.000	-	-	0.000	-	-	72.000

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

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force															Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13						P-1 Line Item Number / Title: 353020 / General Purpose Bombs						Aggregated Items Title: GENERAL PURPOSE BOMBS (ITEMS LESS THAN \$5 MILLION)							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
MXU-651 AFG, GBU-10 (EC31)	A		-	-	-	0.008	179	1.500	0.009	200	1.700	0.009	211	1.800	-	-	0.000	0.009	211	1.800
BOMB FUZE PROTECTION ASSEMBLY (ED67)	A		-	-	-	0.000	6,309	0.750	0.000	4,160	0.500	0.000	4,310	0.500	-	-	0.000	0.000	4,310	0.500
MK84 FIN ASSEMBLY (F607)	A		-	-	-	0.001	1,065	0.700	0.001	1,182	1.000	0.001	1,308	1.000	-	-	0.000	0.001	1,308	1.000
FIN ASSY BSU-33B/B (EE10)	A		-	-	-	0.000	20,024	4.850	0.000	10,655	3.000	0.000	10,879	3.000	-	-	0.000	0.000	10,879	3.000
(ED41) BLU-110B/B GENERAL PURPOSE BOMB	A		-	-	-	0.013	7	0.091	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000
IM	A		-	-	-	-	-	2.000	-	-	2.000	-	-	2.000	-	-	0.000	-	-	2.000
LWIP	A		-	-	-	-	-	3.000	-	-	3.000	-	-	3.000	-	-	0.000	-	-	3.000
GP BOMB IM PRODUCTION ENGINEERING	A		-	-	-	-	-	4.900	-	-	4.900	-	-	4.900	-	-	0.000	-	-	4.900
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	1.000	-	-	1.000	-	-	1.000	-	-	0.000	-	-	1.000
Subtotal: Uncategorized			-	-	-	-	-	18.791	-	-	17.100	-	-	17.200	-	-	0.000	-	-	17.200
Total			-	-	-	-	-	18.791	-	-	17.100	-	-	17.200	-	-	0.000	-	-	17.200

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-40, Budget Line Item Justification: FY 2018 Air Force	Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 353190 / MASSIVE ORDNANCE PENETRATOR (MOP)

ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0604327F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	39.690	3.600	38.382	0.000	38.382	38.387	0.000	0.000	0.000	-	120.059
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	39.690	3.600	38.382	0.000	38.382	38.387	0.000	0.000	0.000	-	120.059
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	39.690	3.600	38.382	0.000	38.382	38.387	0.000	0.000	0.000	-	120.059

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Massive Ordnance Penetrator (MOP) is a 30,000 lb class precision guided penetrator designed to defeat hard and deeply buried targets.

Funds may be used to address long lead items as well as emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

Funding for this exhibit is contained in PE 0208030F, project 353190.

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs **P-1 Line Item Number / Title:** 353190 / MASSIVE ORDNANCE PENETRATOR (MOP)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0604327F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	MASSIVE ORDNANCE PENETRATOR (MOP)		A		- / -	- / 39.690	- / 3.600	- / 38.382	- / 0.000	- / 38.382
P-40	Total Gross/Weapon System Cost				- / -	- / 39.690	- / 3.600	- / 38.382	- / 0.000	- / 38.382

*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:

1. The FY2018 budget request includes funding for additional MOP assets.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353190 / MASSIVE ORDNANCE PENETRATOR (MOP)	Item Number / Title [DODIC]: - / MASSIVE ORDNANCE PENETRATOR (MOP)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	39.690	3.600	38.382	0.000	38.382
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	39.690	3.600	38.382	0.000	38.382
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	39.690	3.600	38.382	0.000	38.382

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>
Hardware - MASSIVE ORDNANCE PENETRATOR (MOP) Cost																		
Recurring Cost																		
MASSIVE ORDNANCE PENETRATOR (MOP)	-	-	-	-	-	39.690	-	-	3.600	-	-	38.382	-	-	-	-	-	38.382
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	39.690	-	-	3.600	-	-	38.382	-	-	-	-	-	38.382
<i>Subtotal: Hardware - MASSIVE ORDNANCE PENETRATOR (MOP) Cost</i>	-	-	-	-	-	39.690	-	-	3.600	-	-	38.382	-	-	-	-	-	38.382
Gross/Weapon System Cost	-	-	-	-	-	39.690	-	-	3.600	-	-	38.382	-	-	0.000	-	-	38.382

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 353620 / JOINT DIRECT ATTACK MUNITION
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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: 503

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	181,433	22,478	30,664	10,330	16,990	27,320	10,778	13,190	13,648	13,100	-	312,611
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,315.908	533.975	707.114	319.525	390.577	710.102	296.971	357.639	373.988	366.678	0.000	7,662.375
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,315.908	533.975	707.114	319.525	390.577	710.102	296.971	357.639	373.988	366.678	0.000	7,662.375
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,315.908	533.975	707.114	319.525	390.577	710.102	296.971	357.639	373.988	366.678	0.000	7,662.375

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.024	0.024	0.023	0.031	0.023	0.026	0.028	0.027	0.027	0.028	-	0.025

Description:

PY funding totals include \$184.412M appropriated for Overseas Contingency Operations (OCO). These funds procure 8,821 JDAM guidance kits. CY funding totals include \$403.126M request for Overseas Contingency Operations (OCO). These funds procure 17,910 JDAM guidance kits.

FY17 totals include amounts enacted in P.L.114-254.

The Joint Direct Attack Munition (JDAM) program is a joint Air Force/Navy program with the Air Force as the lead service. Designated ACAT 1C, this program upgrades the existing inventory of general purpose bombs (MK-82, MK-83, MK-84, BLU-109, and BLU-137) by integrating the bombs with a field installed guidance kit using a Global Positioning System-aided Inertial Navigation System (GPS/INS). JDAM provides an accurate, adverse weather capability. JDAM is integrated with the B-52H, B-2A, B-1B, F-16 (all variants), F/A-18A+/C/D/E/F, F-15E, AV-8B, A-10C and F-22A aircraft. Integration with the MQ-9 and F-35 are in progress.

The Air Force is developing the BLU-137 which is a modernized warhead penetrator to replace the BLU-109. The BLU-137 will increase fuze survivability when used against bunkers, aircraft shelters, and reinforced targets. This new warhead uses a modified JDAM tail kit hardback assembly to include an Arming Generator Relocator Adaptor (AGRA). The improved tail kit design will increase tail kit unit costs for this variant.

The Arming Generator Relocator Adaptor (AGRA) is a new capability that will be added to the JDAM weapon system. The AGRA is used in conjunction with the BLU-137/B as a penetration weapon against bunkers, aircraft shelters, and reinforced concrete structures.

Pursuant to section 2308 of Title 10, U.S. Code, this program will seek cost efficiencies where available through production lot negotiations. This program will continue procurement past FY 2022 due to evolving warfighter requirements driven by ongoing combat expenditures.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Funding for this exhibit contained in PE 0207583F.

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 353620 / JOINT DIRECT ATTACK MUNITION
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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: 503

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	JOINT DIRECT ATTACK MUNITION	P-5a, P-21	A		181,433 / 4,315.908	22,478 / 533.975	30,664 / 707.114	10,330 / 319.525	16,990 / 390.577	27,320 / 710.102
P-40	Total Gross/Weapon System Cost				181,433 / 4,315.908	22,478 / 533.975	30,664 / 707.114	10,330 / 319.525	16,990 / 390.577	27,320 / 710.102

*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:

FY18 funding totals include \$319.525 million to procure 10,330 guidance kits and \$390.577 million in Overseas Contingency Operations (OCO) to procure 16,990 guidance kits.

This program procures JDAM guidance kits, laser sensors, airborne test equipment, and supporting activities to include software block upgrades and other technical services. The hardware purchase includes a mixture of JDAM guidance kits for the MK-82, MK-83, MK-84, BLU-109 and BLU-137 as well as precision laser guidance sensors for the MK-82, and airborne test equipment for flight test.

This procurement is critical to replenish stockpiles supporting on-going warfighter missions in which JDAM comprises the majority of combat expenditures.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353620 / JOINT DIRECT ATTACK MUNITION	Item Number / Title [DODIC]: - / JOINT DIRECT ATTACK MUNITION

ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)		181,433	22,478	30,664	10,330	16,990	27,320
Gross/Weapon System Cost (<i>\$ in Millions</i>)		4,315.908	533.975	707.114	319.525	390.577	710.102
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)		4,315.908	533.975	707.114	319.525	390.577	710.102
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)		4,315.908	533.975	707.114	319.525	390.577	710.102
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (<i>\$ in Millions</i>)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)		0.024	0.024	0.023	0.031	0.023	0.026

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Joint Direct Attack Munition Cost																		
Non Recurring Cost																		
Non Recurring Engineering-Facilitization	-	-	-	-	-	6.135	-	-	-	-	-	-	-	-	-	-	-	-
Life of Type Buy (LOTB)	-	-	-	-	-	0.263	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	6.398	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway - Joint Direct Attack Munition Cost</i>	-	-	-	-	-	6.398	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - Hardware End Item Cost																		
Recurring Cost																		
JDAM TAIL KIT ^(t)	0.022	181,433	3,903.295	0.021	22,478	480.776	0.021	30,664	630.597	0.023	10,330	235.044	0.023	16,990	388.624	0.023	27,320	623.668
LASER SENSOR	0.014	9,602	132.939	0.011	2,583	29.469	0.012	3,999	47.848	0.012	5,000	60.700	-	-	0.000	0.012	5,000	60.700
<i>Subtotal: Recurring Cost</i>	-	-	4,036.234	-	-	510.245	-	-	678.445	-	-	295.744	-	-	388.624	-	-	684.368
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	4,036.234	-	-	510.245	-	-	678.445	-	-	295.744	-	-	388.624	-	-	684.368
Logistics - Logistics End Item Cost																		
Recurring Cost																		
TECHNICAL DATA	-	-	0.060	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	0.060	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Logistics - Logistics End Item Cost</i>	-	-	0.060	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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Exhibit P-5, Cost Analysis: FY 2018 Air Force												Date: May 2017					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13						P-1 Line Item Number / Title: 353620 / JOINT DIRECT ATTACK MUNITION						Item Number / Title [DODIC]: - / JOINT DIRECT ATTACK MUNITION					

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Ancillary Equipment - AncillaryEquipment End Item Cost																		
Recurring Cost																		
TEST EQUIPMENT (CMBRE)	-	-	7.735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AIRBORNE TEST EQUIPMENT	-	-	68.830	-	-	0.000	-	-	3.909	-	-	4.395	-	-	-	-	-	4.395
<i>Subtotal: Recurring Cost</i>	-	-	76.565	-	-	0.000	-	-	3.909	-	-	4.395	-	-	-	-	-	4.395
<i>Subtotal: Ancillary Equipment - AncillaryEquipment End Item Cost</i>	-	-	76.565	-	-	0.000	-	-	3.909	-	-	4.395	-	-	-	-	-	4.395
Support - Support End Item Cost																		
PMA - GOVERNMENT COSTS	-	-	40.550	-	-	3.275	-	-	2.000	-	-	2.000	-	-	-	-	-	2.000
ALTERNATE DISPUTE RESOLUTION	-	-	0.990	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
SYSTEM TEST & EVALUATION	-	-	0.222	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
TRAINING	-	-	4.533	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
PRODUCTION SUSTAINING ENGINEERING	-	-	115.204	-	-	11.641	-	-	19.591	-	-	16.205	-	-	-	-	-	16.205
CONTRACTOR INCENTIVE	-	-	37.840	-	-	2.416	-	-	3.169	-	-	1.181	-	-	1.953	-	-	3.134
DELIVERY ACCELERATION	-	-	2.753	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
SEEK EAGLE	-	-	0.957	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	203.049	-	-	17.332	-	-	24.760	-	-	19.386	-	-	1.953	-	-	21.339
Gross/Weapon System Cost	0.024	181,433	4,315.908	0.024	22,478	533.975	0.023	30,664	707.114	0.031	10,330	319.525	0.023	16,990	390.577	0.026	27,320	710.102

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353620 / JOINT DIRECT ATTACK MUNITION	Item Number / Title [DODIC]: - / JOINT DIRECT ATTACK MUNITION
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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>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
JDAM TAIL KIT ^(†)		2016	BOEING / ST CHARLES, MO	SS / FPIF	AFLCMC Hill AFB	Mar 2016	Mar 2017	22,478	0.021	Y		Oct 2013
JDAM TAIL KIT ^(†)		2017	BOEING / ST CHARLES, MO	SS / FPIF	AFLCMC Hill AFB	Feb 2017	Mar 2018	30,664	0.021	Y		Oct 2013
JDAM TAIL KIT ^(†)		2018	BOEING / ST CHARLES, MO	SS / FPIF	AFLCMC Hill AFB	Feb 2018	Mar 2019	10,330	0.023	Y		Oct 2013
JDAM TAIL KIT ^(†)	✓	2018	BOEING / ST CHARLES, MO	SS / FPIF	AFLCMC Hill AFB	Feb 2018	Mar 2019	16,990	0.023	Y		Oct 2013

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 **P-1 Line Item Number / Title:** 353620 / JOINT DIRECT ATTACK MUNITION **Item Number / Title [DODIC]:** - / JOINT DIRECT ATTACK MUNITION

Cost Elements <i>(Units in Thousands)</i>						Fiscal Year 2016												Fiscal Year 2017												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	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
JDAM TAIL KIT																															
Prior Years Deliveries: 181433																															
	1	2016	AF	22.478	.000	22.478																							9.367		
	1	2016	NAVY (+)	1.912	.000	1.912																							.799		
	1	2016	FMS (+)	7.684	.000	7.684																							3.204		
	1	2016	Total	32.074	.000	32.074																							13.370		
	1	2017	AF	30.664	.000	30.664																							30.664		
	1	2017	NAVY (+)	4.642	.000	4.642																							4.642		
	1	2017	FMS (+)	2.850	.000	2.850																							2.850		
	1	2017	Total	38.156	.000	38.156																							38.156		
	1	2018	AF	10.330	.000	10.330																							10.330		
	1	2018	NAVY (+)	7.880	.000	7.880																							7.880		
	1	2018	FMS (+)	1.300	.000	1.300																							1.300		
	1	2018	Total Base	19.510	.000	19.510																							19.510		
✓	1	2018	AF	16.990	.000	16.990																							16.990		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353620 / JOINT DIRECT ATTACK MUNITION	Item Number / Title [DODIC]: - / JOINT DIRECT ATTACK MUNITION
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Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2018													Fiscal Year 2019													B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
JDAM TAIL KIT																																	
Prior Years Deliveries: 181433																																	
	1	2016	AF	22.478	13.111	9.367	1.873	1.873	1.873	1.874	1.874																			.000			
	1	2016	NAVY (+)	1.912	1.113	.799	.159	.160	.160	.160	.160																			.000			
	1	2016	FMS (+)	7.684	4.480	3.204	.640	.641	.641	.641	.641																			.000			
	1	2016	Total	32.074	18.704	13.370	2.672	2.674	2.674	2.675	2.675	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2017	AF	30.664	.000	30.664	-	-	-	-	-	2.555	2.555	2.555	2.555	2.555	2.555	2.555	2.555	2.556	2.556	2.556	2.556							.000			
	1	2017	NAVY (+)	4.642	.000	4.642	-	-	-	-	-	.386	.386	.387	.387	.387	.387	.387	.387	.387	.387	.387	.387							.000			
	1	2017	FMS (+)	2.850	.000	2.850	-	-	-	-	-	.237	.237	.237	.237	.237	.237	.237	.238	.238	.238	.238	.238							.000			
	1	2017	Total	38.156	.000	38.156	-	-	-	-	-	3.178	3.178	3.179	3.179	3.179	3.179	3.180	3.180	3.181	3.181	3.181							.000				
	1	2018	AF	10.330	.000	10.330						A -	-	-	-	-	-	-	-	-	-	-	.860	.860	.861	.861	.861	.861	.861	4.305			
	1	2018	NAVY (+)	7.880	.000	7.880						A -	-	-	-	-	-	-	-	-	-	.656	.656	.656	.656	.657	.657	.657	3.285				
	1	2018	FMS (+)	1.300	.000	1.300						A -	-	-	-	-	-	-	-	-	-	.108	.108	.108	.108	.108	.108	.108	.544				
	1	2018	Total Base	19.510	.000	19.510						-	-	-	-	-	-	-	-	-	-	1.624	1.624	1.625	1.625	1.626	1.626	1.626	8.134				
✓	1	2018	AF	16.990	.000	16.990						A -	-	-	-	-	-	-	-	-	-	1.415	1.415	1.416	1.416	1.416	1.416	1.416	7.080				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 **P-1 Line Item Number / Title:** 353620 / JOINT DIRECT ATTACK MUNITION **Item Number / Title [DODIC]:** - / JOINT DIRECT ATTACK MUNITION

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2020													Fiscal Year 2021													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
JDAM TAIL KIT																																	
Prior Years Deliveries: 181433																																	
	1	2016	AF	22.478	22.478	.000																							.000				
	1	2016	NAVY (+)	1.912	1.912	.000																							.000				
	1	2016	FMS (+)	7.684	7.684	.000																							.000				
	1	2016	Total	32.074	32.074	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2017	AF	30.664	30.664	.000																							.000				
	1	2017	NAVY (+)	4.642	4.642	.000																							.000				
	1	2017	FMS (+)	2.850	2.850	.000																							.000				
	1	2017	Total	38.156	38.156	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2018	AF	10.330	6.025	4.305	.861	.861	.861	.861	.861																		.000				
	1	2018	NAVY (+)	7.880	4.595	3.285	.657	.657	.657	.657	.657																		.000				
	1	2018	FMS (+)	1.300	.756	.544	.108	.109	.109	.109	.109																		.000				
	1	2018	Total Base	19.510	11.376	8.134	1.626	1.627	1.627	1.627	1.627	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000					
✓	1	2018	AF	16.990	9.910	7.080	1.416	1.416	1.416	1.416	1.416																		.000				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: FY 2018 Air Force	Date: May 2017
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Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353620 / JOINT DIRECT ATTACK MUNITION	Item Number / Title [DODIC]: - / JOINT DIRECT ATTACK MUNITION
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	BOEING - ST CHARLES, MO	7,501	18,900	36,500	0	0	0	0	15	5	13	18

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

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

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 354040 / B61
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0101125F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 468

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	30	-	30	250	533	-	-	-	813
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	77.068	0.000	77.068	121.323	164.139	18.886	0.000	0.000	381.416
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	-	0.000	11.239	0.000	0.000	0.000	-	11.239
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	77.068	0.000	77.068	110.084	164.139	18.886	0.000	0.000	370.177
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	0.000	0.000	11.239	-	11.239	0.000	0.000	0.000	0.000	-	11.239
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	88.307	0.000	88.307	110.084	164.139	18.886	0.000	0.000	381.416

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	2.569	-	2.569	0.485	0.308	-	-	-	0.469

Description:

The purpose of this program element is to conduct and support United States Air Force (USAF) and Joint Department of Defense (DoD) / Department of Energy (DOE) acquisition activities for the modernization of nuclear weapons.

B61-12 Life Extension Program (LEP): The B61-12 LEP will integrate DOE efforts to extend the service life of the warhead with DoD efforts to develop a guided Tail Kit Assembly (TKA) required to maintain current B61 mission characteristics. Programmatic integration of the Air Force-led, joint DoD-DOE program is accomplished through the B61 LEP Project Officers Group (POG) and its subgroups. In accordance with Air Force Materiel Command mission assignment memo (dated 17 Feb 11) and National Nuclear Security Administration (NNSA)-Air Force Nuclear Weapons Center (AFNWC) Memorandum of Understanding (MOU dated 28 Jun 12), the USAF is responsible for development, acquisition and delivery of a guided TKA and for All Up Round (AUR) technical integration, system qualification and fielding of the B61-12 variant on multiple platforms. The production effort for the B61 TKA includes the production and delivery of TKAs, accessories, spares, ancillary equipment, trainers, lot acceptance test assets, and support.

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs **P-1 Line Item Number / Title:** 354040 / B61

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0101125F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 468

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B61	P-5a, P-21	B		- / 0.000	- / 0.000	- / 0.000	30 / 77.068	- / 0.000	30 / 77.068
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 0.000	30 / 77.068	- / 0.000	30 / 77.068

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

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

Justification:
 The B61-12 LEP TKA program has completed Critical Design Review and continues to meet Reliability and Development Test targets and Manufacturing Readiness Levels on schedule to support a 1QFY19 Milestone C (MS C) decision. The program has conducted multiple Guided Test Vehicle (GTV) flights to date with a final GTV flight in 3QFY17 and completion of Development Testing in FY18. FY18 funding includes the procurement of long lead components, trainers, technical and engineering support, and support equipment as authorized by ADM dated 13Jan17.

Funds may be used to address emerging and short-notice Diminishing Manufacturing Sources (DMS) issues.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 354040 / B61	Item Number / Title [DODIC]: - / B61

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	30	-	30
Gross/Weapon System Cost (\$ in Millions)	0.000	0.000	0.000	77.068	0.000	77.068
Less PY Advance Procurement (\$ in Millions)	-	0.000	0.000	0.000	-	0.000
Net Procurement (P-1) (\$ in Millions)	0.000	0.000	0.000	77.068	0.000	77.068
Plus CY Advance Procurement (\$ in Millions)	-	0.000	0.000	11.239	-	11.239
Total Obligation Authority (\$ in Millions)	0.000	0.000	0.000	88.307	0.000	88.307

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

Initial Spares (\$ in Millions)	0.000	0.000	0.000	0.000	0.000	0.000
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	2.569	-	2.569

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - B61 Cost																		
Recurring Cost																		
Hardware End Item (TKA) ^(†)	-	-	0.000	-	-	0.000	-	-	0.000	0.664	30	19.906	-	-	0.000	0.664	30	19.906
Subtotal: Recurring Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	19.906	-	-	0.000	-	-	19.906
Subtotal: Hardware - B61 Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	19.906	-	-	0.000	-	-	19.906
Logistics - B61 Cost																		
Non Recurring Cost																		
CMS	-	-	-	-	-	-	-	-	-	-	-	4.829	-	-	-	-	-	4.829
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	4.829	-	-	-	-	-	4.829
Subtotal: Logistics - B61 Cost	-	-	-	-	-	-	-	-	-	-	-	4.829	-	-	-	-	-	4.829
Ancillary Equipment - B61 Cost																		
Recurring Cost																		
TKA Containers	-	-	-	-	-	-	-	-	-	-	-	0.135	-	-	-	-	-	0.135
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	0.135	-	-	-	-	-	0.135
Non Recurring Cost																		
BA Trainers	-	-	-	-	-	-	-	-	-	-	-	27.529	-	-	-	-	-	27.529
T&H Gear	-	-	-	-	-	-	-	-	-	-	-	12.121	-	-	-	-	-	12.121
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	39.650	-	-	-	-	-	39.650

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Exhibit P-5, Cost Analysis: FY 2018 Air Force												Date: May 2017					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13						P-1 Line Item Number / Title: 354040 / B61						Item Number / Title [DODIC]: - / B61					
ID Code (A=Service Ready, B=Not Service Ready) : B												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Ancillary Equipment - B61 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	39.785	-	-	-	-	-	39.785
Support - B61 Cost																		
PMA	-	-	-	-	-	-	-	-	-	-	-	3.153	-	-	-	-	-	3.153
System T&E	-	-	-	-	-	-	-	-	-	-	-	9.395	-	-	-	-	-	9.395
<i>Subtotal: Support - B61 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	12.548	-	-	-	-	-	12.548
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	0.000	2.569	30	77.068	-	-	0.000	2.569	30	77.068

Remarks:

ADM authorized funding in FY18 prior to the start of MS C for long lead components, trainers, code management system components, and nuclear support equipment to support critical Initial Nuclear Surety Inspection and first TKA delivery date for AUR assembly.

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 354040 / B61	Item Number / Title [DODIC]: - / B61
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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>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware End Item (TKA) ^(†)		2018	TBD / TBD	TBD	Eglin AFB	Jan 2018	Sep 2018	30	0.664	N	Dec 2017	
Advance Procurement												
Hardware End Item (TKA)		2018	TBD / TBD	TBD	Eglin AFB	Jan 2018	Sep 2018	250	0.045	N	Dec 2017	

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: FY 2018 Air Force **Date: May 2017**

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 **P-1 Line Item Number / Title:** 354040 / B61 **Item Number / Title [DODIC]:** - / B61

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
Hardware End Item (TKA)																																
	1	2018	AF	30	0	30				A	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13		P-1 Line Item Number / Title: 354040 / B61
		Item Number / Title [DODIC]: - / B61

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	TBD - TBD		576	576	0	4	8	12	0	0	0	0

Remarks:
Minimum Sustaining Rate (MSR) for 2018 is blank and not applicable to the 2018 quantity of 30 trainers. Minimum Sustaining Rate for 2019 Lot 1 production is expected to be 168 units.

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

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

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Exhibit P-40, Advance Procurement Budget Line Item Justification: FY 2018 Air Force										Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs					P-1 Line Item Number / Title: 354040 / B61							
Program Elements for Code B Items: 0101125F					Other Related Program Elements: N/A							
Line Item MDAP/MAIS Code: 468												

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	11.239	-	11.239	0.000	0.000	0.000	0.000	-	11.239
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	11.239	-	11.239	0.000	0.000	0.000	0.000	-	11.239
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	11.239	-	11.239	0.000	0.000	0.000	0.000	-	11.239

Description:

The purpose of this program element is to conduct and support United States Air Force (USAF) and Joint Department of Defense (DoD) / Department of Energy (DOE) acquisition activities for the modernization of nuclear weapons.

B61-12 Life Extension Program (LEP): The B61-12 LEP will integrate DOE efforts to extend the service life of the warhead with DoD efforts to develop a guided Tail Kit Assembly (TKA) required to maintain current B61 mission characteristics. Programmatic integration of the Air Force-led, joint DoD-DOE program is accomplished through the B61 LEP Project Officers Group (POG) and its subgroups. In accordance with Air Force Materiel Command mission assignment memo (dated 17 Feb 11) and National Nuclear Security Administration (NNSA)-Air Force Nuclear Weapons Center (AFNWC) Memorandum of Understanding (MOU dated 28 Jun 12), the USAF is responsible for development, acquisition and delivery of a guided TKA and for All Up Round (AUR) technical integration, system qualification and fielding of the B61-12 variant on multiple platforms. The production effort for the B61 TKA includes the production and delivery of TKAs, accessories, spares, ancillary equipment, trainers, lot acceptance test assets, and support. Advance procurement is required for the purchase of long lead items and life of type buy components for the TKA, the AUR trainers, and associated nuclear support equipment, and code management systems prior to entry into Milestone C.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 354040 / B61
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Program Elements for Code B Items: 0101125F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 468

Exhibits Schedule				Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	B61			- / -	- / 0.000	- / 0.000	30 / 11.239	- / -	30 / 11.239
P-40	Total Gross/Weapon System Cost			- / -	- / 0.000	- / 0.000	30 / 11.239	- / -	30 / 11.239

*Title represents the P-10 Title for Advance Procurement.

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

Justification:
 The B61-12 LEP TKA requires FY18 advance procurement for long lead, non-end item components that will be assembled into AUR Trainers, CMS end items, and Tailkit Assemblies, beginning in FY19-20.

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): FY 2018 Air Force					Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13			P-1 Line Item Number / Title: 354040 / B61			P-5 Number / Title: - / B61	
First System (2018) Award Date: January 2018		First System (2018) Completion Date: August 2018			Interval Between Systems: 0 Months		
B61	Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2016 <i>(Each)</i>	FY 2017 <i>(Each)</i>	FY 2018 <i>(Each)</i>		
Quantity	7	-	-	-	30		
Cost Elements	When Required <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2016 <i>(\$ M)</i>	FY 2017 <i>(\$ M)</i>	FY 2018 <i>(\$ M)</i>		
CFE							
Hardware End Item (TKA) (†)	18	-	-	-	11.239		
<i>Total: CFE</i>		-	-	-	11.239		
Total Advance Procurement/Obligation Authority		-	0.000	0.000	11.239		

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): FY 2018 Air Force						Date: May 2017	
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13			P-1 Line Item Number / Title: 354040 / B61			P-5 Number / Title: - / B61	
FY 2018							
Cost Elements	QPA (Each)	Production Leadtime (Months)	Unit Cost (\$ M)	Contract Forecast Date	2018 Qty (Each)	For FY	Total Cost Request (\$ M)
CFE							
Hardware End Item (TKA) ^(t)	-	11	0.045	Jan 2018	250		11.239
<i>Total: CFE</i>							11.239
Total Advance Procurement/Obligation Authority							11.239

Description:
The B61-12 LEP TKA program requires FY18 advance procurement for long lead, non-end item components that will be assembled into AUR trainers, CMS end items, and Tailkit Assemblies, beginning in FY19-FY20.

^(t) indicates the presence of Contract Data presented in the associated P-5 Item's P-5a exhibit.

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items **P-1 Line Item Number / Title:** 355100 / CAD/PAD

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	50.287	38.890	53.469	0.000	53.469	51.827	47.476	48.370	49.247	-	339.566
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	50.287	38.890	53.469	0.000	53.469	51.827	47.476	48.370	49.247	-	339.566
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	50.287	38.890	53.469	0.000	53.469	51.827	47.476	48.370	49.247	-	339.566

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Cartridge Actuated Devices/Propellant Actuated Devices (CAD/PAD) are critical explosive items used to activate pilot/aircrew life-support/survival emergency-release and aircrew-escape/ejection systems, other aircrew flight and survival equipment, aerial refueling and data destruction systems. CAD/PAD items are used in every USAF mission area, i.e. combat, training, force protection, search & rescue and humanitarian relief. These explosive devices have finite lives and are replaced based on time-change, shelf/service life requirements and during scheduled aircraft maintenance. The CAD/PAD category includes items such as the Universal Water Activated Release System (UWARS), parachute-release cartridges, Shield Mild-Detonating Cord (SMDC), rocket motors, rocket catapults, time-delay cartridges, initiators, rocket catapults, gas generators, etc.

CAD/PAD items are purchased for AF by the CAD/PAD Joint Program Office at Hill AFB, UT.

Funding for this exhibit contained in PE 0708070F.

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items **P-1 Line Item Number / Title:** 355100 / CAD/PAD

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	CAD/PAD				- / -	- / 50.287	- / 38.890	- / 53.469	- / 0.000	- / 53.469
P-40	Total Gross/Weapon System Cost				- / -	- / 50.287	- / 38.890	- / 53.469	- / 0.000	- / 53.469

*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:
 FY2018 funds will be used for the on-going effort to maintain Aircraft operational availability and pilot safety. CAD/PAD assets expire due to established item shelf/service life, or mandatory "time-change" procedures for installed devices. The aircraft becomes grounded until reliable assets are obtained and installed.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15 **P-1 Line Item Number / Title:** 355100 / CAD/PAD **Aggregated Items Title:** CAD/PAD

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BOMBER AIRCRAFT	A		-	-	-	-	-	3.996	-	-	5.851	-	-	7.964	-	-	0.000	-	-	7.964
CARGO AIRCRAFT	A		-	-	-	-	-	1.282	-	-	3.703	-	-	10.040	-	-	0.000	-	-	10.040
FIGHTER AIRCRAFT	A		-	-	-	-	-	4.205	-	-	7.740	-	-	10.535	-	-	0.000	-	-	10.535
TRAINING AIRCRAFT	A		-	-	-	-	-	26.830	-	-	17.480	-	-	16.326	-	-	0.000	-	-	16.326
COMMON EGRESS ITEMS	A		-	-	-	-	-	9.600	-	-	2.061	-	-	5.806	-	-	0.000	-	-	5.806
COMMON LIFE SUPPORT ITEMS	A		-	-	-	-	-	3.092	-	-	1.963	-	-	2.672	-	-	0.000	-	-	2.672
COMMON MISC ITEMS	A		-	-	-	-	-	1.282	-	-	0.092	-	-	0.126	-	-	0.000	-	-	0.126
Subtotal: Uncategorized			-	-	-	-	-	50.287	-	-	38.890	-	-	53.469	-	-	0.000	-	-	53.469
Total			-	-	-	-	-	50.287	-	-	38.890	-	-	53.469	-	-	0.000	-	-	53.469

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-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity:
3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items **P-1 Line Item Number / Title:**
355450 / Explosive Ordnance Disposal (EOD)

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	5.612	5.714	5.921	0.000	5.921	6.081	6.186	6.303	6.417	-	42.234
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	5.612	5.714	5.921	0.000	5.921	6.081	6.186	6.303	6.417	-	42.234
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	5.612	5.714	5.921	0.000	5.921	6.081	6.186	6.303	6.417	-	42.234

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Explosive Ordnance Disposal (EOD) materials support Civil Engineer, EOD, Security Forces Military Working Dogs, RED HORSE, Special Forces operations and training, and formal schools with demolition munitions. Used in deployment packages, base response assets and range clearance resources in support of peacetime and contingency operations. These items are certified for use by the Air Force Non-Nuclear Munitions Safety Board (NNMSB) and the Department of Defense Explosives Safety Board (DDESB).

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.

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.

Funding for this exhibit is contained in PE 0204424F.

Justification:

FY2018 purchases Explosive Ordnance Disposal (EOD), Demolition Material, Civil Engineering Tools and Equipment including all explosives, explosive tools and related equipment to render unexploded ordnance safe. Assets Provide support for Counter Improvised Explosive Devices (IED) operations, Special Operations teams, formal schools and Military Working Dog training. EOD/Demolition Munitions items are used in deployment packages, base response assets and range clearance resources in support of peacetime and contingency operations.

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

Appropriation / Budget Activity / Budget Sub Activity:
 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items **P-1 Line Item Number / Title:**
 355900 / SPARES AND REPAIR PARTS

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.103	0.740	0.678	0.000	0.678	0.528	0.538	0.548	0.559	-	3.694
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.103	0.740	0.678	0.000	0.678	0.528	0.538	0.548	0.559	-	3.694
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.103	0.740	0.678	0.000	0.678	0.528	0.538	0.548	0.559	-	3.694

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This P-1 line funds spares and repair parts for Procurement of Ammunition, Air Force (PAAF) items. Initial spares consist of repairable components, assemblies and subassemblies, as well as consumable items required in support of newly fielded end items. Requirements are based on historical failure/demand data on similar items. Replenishment spares consist of repairable components, assemblies and subassemblies required for follow-on sustainment of end items. Munitions replenishment spare levels are based on item-specific failure/demand driven computations.

PE associated with this P-1 Line is 0208030F.

Justification:

FY18 funds are used for spares and repair parts for Procurement of Ammunition, Air Force (PAAF) items.

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.

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

Appropriation / Budget Activity / Budget Sub Activity:
 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items **P-1 Line Item Number / Title:**
 355970 / MODIFICATIONS

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	1.102	0.573	1.409	0.000	1.409	1.279	1.302	1.325	1.349	-	8.339
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	1.102	0.573	1.409	0.000	1.409	1.279	1.302	1.325	1.349	-	8.339
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	1.102	0.573	1.409	0.000	1.409	1.279	1.302	1.325	1.349	-	8.339

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This budget line encompasses both new and on-going modification efforts for guided bomb and munitions systems. Permanent modifications consist of configuration changes to in-service systems and equipment which correct material/other deficiencies or add/delete capability. Safety modifications correct deficiencies which may create personnel, system or equipment hazards.

The FY17 funding request was reduced by \$0.878 million to account for the availability of prior year execution balances.

Funding for this exhibit contained in PE 0208030F.

Justification:

The FY2018 funding request is a low cost mod for guided bomb and munitions systems that reflects estimated costs based on historical funding requirements and projected future requirements.

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

Appropriation / Budget Activity / Budget Sub Activity:
3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items

P-1 Line Item Number / Title:
355990 / ITEMS LESS THAN \$5 MILLION

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	3.044	5.156	5.047	0.000	5.047	4.638	4.717	4.806	4.893	-	32.301
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	3.044	5.156	5.047	0.000	5.047	4.638	4.717	4.806	4.893	-	32.301
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	3.044	5.156	5.047	0.000	5.047	4.638	4.717	4.806	4.893	-	32.301

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This category includes various munitions items to support air base ground defense, air rescue and aircrew/ground training.

The Air Force procures munitions to maintain appropriate quantities in the War Reserve Materiel 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.

All items listed on the following P-40A have an annual procurement value of less than \$5 million and are code A.

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.

PEs associated with this P-1 Line are 0207580F and 0207599F.

Justification:

FY2018 purchases miscellaneous munitions such as hand grenades, grenades with colored smoke for signaling aircrews and air-rescue, and ground-burst simulators primarily used for air-base and ground support missions.

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 16: Flares **P-1 Line Item Number / Title:** 356010 / FLARES

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	126,194	112,077	-	-	-	238,271
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	139.777	181.240	143.983	3.498	147.481	126.194	112.077	126.298	0.166	-	833.233
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	139.777	181.240	143.983	3.498	147.481	126.194	112.077	126.298	0.166	-	833.233
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	139.777	181.240	143.983	3.498	147.481	126.194	112.077	126.298	0.166	-	833.233

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	0.001	0.001	-	-	-	0.003

Description:

PY2016 funding totals includes \$11.064M appropriated for Overseas Contingency Operations.

CY2017 funding totals includes \$6.531M appropriated for Overseas Contingency Operations.

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

-(L410) M206 Flare is an infrared countermeasures flare used by A-10, F-16, C-17, C-130, and other aircraft against heat seeking missiles. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.

-(L461) MJU-10 Flare is an infrared countermeasures flare used by F-15 aircraft against heat seeking missiles. Will be replaced by the MJU-53 in 2020. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.

-(L462) MJU-23 Infrared Countermeasure Flare used on the B-1B aircraft against heat seeking missiles. The MJU-23 flare includes a specially designed high ejection cartridge (BBU-46) that propels the burning flare pellet upward with sufficient velocity to clear the aircraft during high speed, low level flight.

-(L463) MJU-7 IR Flare is an infrared countermeasures flare applicable to the A-10, F-15, F-16, F-22 and other aircraft. It creates an infrared signature and acts as a decoy against heat seeking missiles. Will be replaced by MJU-53 in 2020. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.

-(LA36) MJU-62 Flare is a multi-spectral countermeasure designed to be used as part of a flare cocktail pattern to confuse advanced infrared threat missiles. Used primarily on the C-17 and C5 aircraft which require a 1 inch by 2 inch by 8 inch flare size to accommodate desired cocktail flare mixes. MJU-62 is being evaluated for use on other types of aircraft such as F-16, A-10 and HH60. This item is procured through USAF.

-(LA66) The MJU-61 is an infrared countermeasure flare used by KC-130J and F-35 aircraft against heat seeking missiles. This item is procured through the Navy PMA 272.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 16: Flares		P-1 Line Item Number / Title: 356010 / FLARES
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>-(LA61) MJU-66 decoy Countermeasure Flare is an improved version of the MJU-64 providing increased decoy effectiveness and protection for the A-10, C-130 and F-35 aircraft and HH-53 and HH-60 helicopters and being evaluated for other aircraft. It is a one-piece aluminum case containing a payload of advanced special material elements, loaded into a multiple jettison unit magazine installed on a countermeasure dispenser. When deployed into the air stream, the special material reacts to emit an infrared signal to decoy infrared seeking missiles.</p> <p>-(LA67) MJU-71 IR Flare is a magnesium based thrusted flare used in a cocktail mix of flares on aircraft to improve the effectiveness of the countermeasures against heat-seeking missile threats. The 1x1x8 inch size provides better protection of the aircraft and flight crew. Other versions of thrusted flares are larger and use more space in the flare dispensers, severely limiting the number of ejection events. Initially approved for use on the C-130, A-10 and F-16 aircraft with on-going tests for use on other platforms. This item is procured through the Navy. PMA 272</p> <p>-(LA68) MJU-68 Flare is a magnesium based countermeasure and was developed specifically for the F-35/JSF aircraft to provide protection from advanced infrared threat missiles.</p> <p>-(LA21) MJU-53 Flare is a magnesium base IR countermeasure. It consists of an aluminum case, crimped and sealed plastic end cap, rubber spacer, plastic piston, safe and ignition device, flare pellet and sealed cartridge cup. It is dispensed and ignited in flight by a BBU-36 impulse cartridge cup). Used on C-17, C-5, and being evaluated for future use on other aircraft such as A-10, F-16 and HH-60.</p> <p>-(LY12) The ALA-17C is an infrared countermeasure used by B-52 aircraft against heat seeking missiles. This item is procured through the US Air Force.</p> <p>-(LA76) The MJU-73 is a spectral flare that is used in a cocktail mix of flares to increase protection against heat-seeking missile threats. This 1x1x8 inch sized flare is primarily used on the HH-60, and is expected to be qualified on several-fixed wing aircraft in the near future. This item is procured through the US Air Force, and is proprietary to Orbital ATK.</p> <p>-(LA78) The XM219 is a bundled flare that is used in a cocktail mix of flares to increase protection against heat-seeking missile threats. This 1x1x8 inch sized flare provides a unique dispensing pattern and is primarily used on the HH-60. This item is procured by the US Army and is proprietary to Alloy Surfaces.</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:0208030F and 0207599F.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 16: Flares **P-1 Line Item Number / Title:** 356010 / FLARES

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	(L410) M206 FLARE	P-5a	A		- / -	- / 25.853	- / 20.882	- / 20.000	- / 0.000	- / 20.000
P-5	(L461) MJU-10 FLARE		A		- / -	- / 10.000	- / 5.000	- / 2.500	- / 0.000	- / 2.500
P-5	(L463) MJU-7A/B, IR FLARE		A		- / -	- / 26.171	- / 16.885	- / 7.549	- / 0.000	- / 7.549
P-40a	(LA21) MJU-53/B IR CM FLARE				- / -	- / 21.478	- / 13.718	- / 40.000	- / 3.498	- / 43.498
P-40a	(LA36) MJU-62/B IR CM FLARE				- / -	- / 7.960	- / 7.400	- / 6.000	- / 0.000	- / 6.000
P-40a	(LA66) MJU-61 IR CM FLARE				- / -	- / 0.000	- / 4.000	- / 4.500	- / 0.000	- / 4.500
P-40a	(LA61) MJU-66 CM ACFT FLARE				- / -	- / 19.800	- / 17.359	- / 16.434	- / 0.000	- / 16.434
P-40a	(LA67) FLARE, IR, CM (MJU-71/B)				- / -	- / 18.515	- / 17.466	- / 22.000	- / 0.000	- / 22.000
P-40a	(LA68) MJU-68/B IR CM FLARE				- / -	- / 5.000	- / 14.190	- / 20.000	- / 0.000	- / 20.000
P-40a	(LY12) ALA-17 FLARE CARTRIDGE				- / -	- / 0.000	- / 10.150	- / 5.000	- / 0.000	- / 5.000
P-40	Total Gross/Weapon System Cost				- / -	- / 139.777	- / 181.240	- / 143.983	- / 3.498	- / 147.481

*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:
 FY2018 purchases countermeasures and flares used by A-10, AC-130, F-16, C-17 and F-35/JSF aircraft, HH-53 and HH-60 helicopters and other aircraft to protect the warfighter against advanced air-to-air and ground-to-air infrared and heat seeking attack weapon systems and missiles.

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.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16	P-1 Line Item Number / Title: 356010 / FLARES	Item Number / Title [DODIC]: - / (L410) M206 FLARE

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	25.853	20.882	20.000	0.000	20.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	25.853	20.882	20.000	0.000	20.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	25.853	20.882	20.000	0.000	20.000

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
M206 FLARE - L410 ^(t)	-	-	-	0.000	704,167	25.350	0.000	599,066	20.530	0.000	513,326	19.491	-	-	0.000	0.000	513,326	19.491
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	25.350	-	-	20.530	-	-	19.491	-	-	0.000	-	-	19.491
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	25.350	-	-	20.530	-	-	19.491	-	-	0.000	-	-	19.491
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.497	-	-	0.350	-	-	0.503	-	-	0.000	-	-	0.503
QUALITY ASSURANCE	-	-	-	-	-	0.006	-	-	0.002	-	-	0.006	-	-	0.000	-	-	0.006
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.503	-	-	0.352	-	-	0.509	-	-	0.000	-	-	0.509
Gross/Weapon System Cost	-	-	-	-	-	25.853	-	-	20.882	-	-	20.000	-	-	0.000	-	-	20.000

Remarks:

The Single Manager for Conventional Ammunition (SMCA), Department of Army provides this cost analysis with estimates obtained from industry based on quantity range matrices and forecasted cost of materials.

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

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Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16	P-1 Line Item Number / Title: 356010 / FLARES	Item Number / Title [DODIC]: - / (L410) M206 FLARE
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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>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
M206 FLARE - L410		2016	KILGORE AND ARMTEC / TOONE, TNA ND COACHELLA, CA	MIPR	ACC-ROCK ISLAND	Mar 2016	Mar 2017	704,167	0.000	Y		
M206 FLARE - L410		2017	KILGORE AND ARMTEC / TOONE, TNA ND COACHELLA, CA	MIPR	ACC-ROCK ISLAND	Mar 2017	Mar 2018	599,066	0.000	Y		
M206 FLARE - L410		2018	KILGORE AND ARMTEC / TOONE, TNA ND COACHELLA, CA	MIPR	ACC-ROCK ISLAND	Mar 2018	Mar 2019	513,326	0.000	Y		

Remarks:
 The Single Manager for Conventional Ammunition (SMCA/Army) procures the M206 Flare for the Air Force and other Military Services having requirements for the same or similar items. SMCA establishes contracts based on the competitive environment among qualified sources.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16	P-1 Line Item Number / Title: 356010 / FLARES	Item Number / Title [DODIC]: - / (L461) MJU-10 FLARE
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	10.000	5.000	2.500	0.000	2.500
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	10.000	5.000	2.500	0.000	2.500
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	10.000	5.000	2.500	0.000	2.500
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
MJU-10 FLARE - L461	-	-	-	0.000	46,481	9.994	0.000	27,435	4.996	0.000	13,321	2.497	-	-	0.000	0.000	13,321	2.497
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	9.994	-	-	4.996	-	-	2.497	-	-	0.000	-	-	2.497
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	9.994	-	-	4.996	-	-	2.497	-	-	0.000	-	-	2.497
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.006	-	-	0.004	-	-	0.003	-	-	0.000	-	-	0.003
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.006	-	-	0.004	-	-	0.003	-	-	0.000	-	-	0.003
Gross/Weapon System Cost	-	-	-	-	-	10.000	-	-	5.000	-	-	2.500	-	-	0.000	-	-	2.500

Remarks:

The Single Manager for Conventional Ammunition (SMCA), Department of Army provides this cost analysis with estimates obtained from industry based on quantity range matrices and forecasted cost of materials.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16	P-1 Line Item Number / Title: 356010 / FLARES	Item Number / Title [DODIC]: - / (L463) MJU-7A/B, IR FLARE

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	26.171	16.885	7.549	0.000	7.549
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	26.171	16.885	7.549	0.000	7.549
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	26.171	16.885	7.549	0.000	7.549

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
MJU-7A/B IR FLARE - L463	-	-	-	0.000	428,983	26.168	0.000	302,617	16.883	0.000	131,928	7.541	-	-	0.000	0.000	131,928	7.541
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	26.168	-	-	16.883	-	-	7.541	-	-	0.000	-	-	7.541
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	26.168	-	-	16.883	-	-	7.541	-	-	0.000	-	-	7.541
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.003	-	-	0.002	-	-	0.008	-	-	0.000	-	-	0.008
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.003	-	-	0.002	-	-	0.008	-	-	0.000	-	-	0.008
Gross/Weapon System Cost	-	-	-	-	-	26.171	-	-	16.885	-	-	7.549	-	-	0.000	-	-	7.549

Remarks:

The Single Manager for Conventional Ammunition (SMCA), Department of Army provides this cost analysis with estimates obtained from industry based on quantity range matrices and forecasted cost of materials.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16 **P-1 Line Item Number / Title:** 356010 / FLARES **Aggregated Items Title:** (LA21) MJU-53/B IR CM FLARE

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA21) MJU-53/B INFRARED COUNTERMEASURE FLARE	A		-	-	-	0.000	280,317	21.478	0.000	208,796	13.718	0.000	533,333	40.000	0.000	46,640	3.498	0.000	579,973	43.498
Subtotal: Uncategorized			-	-	-	-	-	21.478	-	-	13.718	-	-	40.000	-	-	3.498	-	-	43.498
Total			-	-	-	-	-	21.478	-	-	13.718	-	-	40.000	-	-	3.498	-	-	43.498

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

Remarks:

The MJU-53 Infrared Countermeasure Flare is purchased by the Munitions Division, AFMC. Unit prices are estimates from industry.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16 **P-1 Line Item Number / Title:** 356010 / FLARES **Aggregated Items Title:** (LA36) MJU-62/B IR CM FLARE

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA36) MJU-62 IR CM FLARE	A		-	-	-	0.000	40,202	7.960	0.000	37,324	7.400	0.000	20,690	6.000	-	-	0.000	0.000	20,690	6.000
Subtotal: Uncategorized			-	-	-	-	-	7.960	-	-	7.400	-	-	6.000	-	-	0.000	-	-	6.000
Total			-	-	-	-	-	7.960	-	-	7.400	-	-	6.000	-	-	0.000	-	-	6.000

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

Remarks:

The MJU-62 Infrared Countermeasure Flare is purchased by the Munitions Division, AFMC. Unit prices are estimates from industry.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16 **P-1 Line Item Number / Title:** 356010 / FLARES **Aggregated Items Title:** (LA66) MJU-61 IR CM FLARE

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA66) MJU-61 IR CM Flare	A		-	-	-	-	-	0.000	0.000	53,333	4.000	0.000	60,000	4.500	-	-	0.000	0.000	60,000	4.500
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	4.000	-	-	4.500	-	-	0.000	-	-	4.500
Total			-	-	-	-	-	0.000	-	-	4.000	-	-	4.500	-	-	0.000	-	-	4.500

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: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16	P-1 Line Item Number / Title: 356010 / FLARES	Aggregated Items Title: (LA61) MJU-66 CM ACFT FLARE
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA61) MJU-66 Decoy ACFT Flare	A		-	-	-	0.000	44,228	19.800	0.000	133,447	17.359	0.000	136,950	16.434	-	-	0.000	0.000	136,950	16.434
Subtotal: Uncategorized			-	-	-	-	-	19.800	-	-	17.359	-	-	16.434	-	-	0.000	-	-	16.434
Total			-	-	-	-	-	19.800	-	-	17.359	-	-	16.434	-	-	0.000	-	-	16.434

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

Remarks:

Air Force purchases MJU-66 through the Navy. The Navy provides this cost analysis with estimates obtained from industry based on quantity range matrices and forecasted cost of materials. FY2014-FY2016 prices have been amended to reflect more closely the proposed costs based in materiel cost increases.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16 **P-1 Line Item Number / Title:** 356010 / FLARES **Aggregated Items Title:** (LA67) FLARE, IR, CM (MJU-71/B)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA67) FLARE, IR, CM (MJU-71/B)	A		-	-	-	0.001	26,225	18,515	0.000	36,376	17,466	0.001	44,000	22,000	-	-	0.000	0.001	44,000	22,000
Subtotal: Uncategorized			-	-	-	-	-	18,515	-	-	17,466	-	-	22,000	-	-	0.000	-	-	22,000
Total			-	-	-	-	-	18,515	-	-	17,466	-	-	22,000	-	-	0.000	-	-	22,000

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

Remarks:

The MJU-71 Infrared Countermeasure Flare is purchased by the Navy. Unit prices are estimates from industry.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16	P-1 Line Item Number / Title: 356010 / FLARES	Aggregated Items Title: (LA68) MJU-68/B IR CM FLARE
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA68) MJU-68 IR CM FLARE	A		-	-	-	0.002	2,039	5.000	0.004	3,547	14.190	0.003	6,667	20.000	-	-	0.000	0.003	6,667	20.000
Subtotal: Uncategorized			-	-	-	-	-	5.000	-	-	14.190	-	-	20.000	-	-	0.000	-	-	20.000
Total			-	-	-	-	-	5.000	-	-	14.190	-	-	20.000	-	-	0.000	-	-	20.000

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

Remarks:

The MJU-68 Infrared Countermeasure Flare is purchased by the Navy. Unit prices are estimates from industry.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16 **P-1 Line Item Number / Title:** 356010 / FLARES **Aggregated Items Title:** (LY12) ALA-17 FLARE CARTRIDGE

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LY17) ALA-17 Flare Cartridge	A		-	-	-	-	-	0.000	0.001	16,548	10.150	0.001	7,862	5.000	-	-	0.000	0.001	7,862	5.000
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	10.150	-	-	5.000	-	-	0.000	-	-	5.000
Total			-	-	-	-	-	0.000	-	-	10.150	-	-	5.000	-	-	0.000	-	-	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-40, Budget Line Item Justification: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 18: Fuzes **P-1 Line Item Number / Title:** 356120 / Fuzes

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	206.919	239.252	24.062	47.000	71.062	105.151	147.766	184.189	220.451	-	1,174.790
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	206.919	239.252	24.062	47.000	71.062	105.151	147.766	184.189	220.451	-	1,174.790
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	206.919	239.252	24.062	47.000	71.062	105.151	147.766	184.189	220.451	-	1,174.790

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

PY funding includes \$7.996M requested for Overseas Contingency Operations.

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

- FMU-152A/B Joint Programmable Fuze (JPF) (EC11) is a multi-function unitary fuze developed and procured for the Joint Direct Attack Munition and other conventional inventory weapons. The FMU-152A/B provides a highly reliable bomb fuze with multiple arm times, instantaneous and multiple short and long delay detonation times, hard target survivability, cockpit programmability, and increased service/shelf life. The JPF is compatible with MK-80 series guided and unguided bombs. It has replaced and/or supplemented the FMU-139A/B and FMU-139C/B, FMU-143, FMU-124, and M904/M905 fuzes, and provides the next generation of fuzing capability for hard target, general purpose, and guided bombs. This item is procured through the Air Force Lifecycle Management Center (AFLCMC), Eglin AFB, Florida. The Air Force is the lead service for procurement.

-The FMU-139D/B is a Navy led general purpose fuze program to replace the FMU-139C/B for the Navy and Air Force. It is a low cost option that met both service requirements for a better buying power business case. The contract for this effort was competitively awarded by the Navy, 17 SEP 15. The new design is being qualified and tested with an AF production buy decision in 3QFY18 and production deliveries beginning in 3QFY19 and beyond.

- DSU-33D/B Proximity Sensor (KY70) is a battery operated, RF, Doppler radar proximity sensor. It is used to provide low altitude proximity function to the bomb fuze. The sensor interfaces with FMU-139 and FMU-152 fuzes. This line item includes existing sensor production, Engineering Change Proposals (ECPs), and product improvement efforts, for example, modifications to eliminate obsolescence. DSU-33D/B will be replaced by C-HOBS. This item will be procured through the Army SMCA.

- Hard Target Void Sensing Fuze (HTVSF), FMU-167 is an advanced system designed to provide fuzing and void sensing functions, enabling a weapon to penetrate and destroy hardened targets protected by multiple layers of soil and/or reinforced concrete. The HTVSF provides for in-flight programming, safing and arming, multi-function (time delay and void sensing) and multi-delay arming capabilities. The United States Air Force (USAF) and Department of the Navy (DON) will employ HTVSF in penetrator warheads (BLU-109, BLU-113), contributing to the ability to strike and functionally defeat high value/high payoff targets in order to achieve strategic and operational objectives. HTVSF completed MS-C in May FY15 & Low-Rate Initial Production (LRIP) was awarded in July FY15. LRIP II was awarded in Sept 16 with projections of awarding Full Rate Production to follow. This item is procured through the Air Force Life Cycle Management Center (AFLCMC) Eglin AFB, Florida.

- Items Less Than Five Million Dollars: Various fuzes, to include inert training items, that have an annual procurement value of less than \$5,000,000 and are code A.

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 18: Fuzes		P-1 Line Item Number / Title: 356120 / Fuzes
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		

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

PEs associated with this P-1 Line are 0208030F and 0207599F.

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 18: Fuzes **P-1 Line Item Number / Title:** 356120 / Fuzes

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	(ED29) FMU-143S/B 60 MIL SEC FUZE		A		- / -	- / 10.000	- / 10.000	- / -	- / -	- / -
P-40a	(ED51) FMU-152 FUZE SYSTEM, UNIVERSAL				- / -	- / 137.698	- / 179.541	- / 0.000	- / -	- / 0.000
P-5	(KY70) DSU-33D/B PROX SENSOR	P-5a	A		- / -	- / 17.896	- / 13.363	- / 17.000	- / -	- / 17.000
P-40a	FMU-139 NRE				- / -	- / 8.595	- / 4.105	- / 0.000	- / -	- / 0.000
P-5	FMU-139D/B	P-5a	A		- / -	- / 8.590	- / -	- / 7.062	6,185 / 15.463	6,185 / 22.525
P-40a	FUZES (ITEMS LESS THAN \$5 MILLION)				- / -	- / 7.140	- / 0.000	- / 0.000	- / -	- / 0.000
P-5	(EE27) FMU-167 HTVSF	P-5a	A		- / -	475 / 17.000	2,241 / 31.537	- / -	1,620 / 31.537	1,620 / 31.537
P-40	Total Gross/Weapon System Cost				- / -	- / 206.919	- / 239.252	- / 24.062	- / 47.000	- / 71.062

*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:
 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.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18	P-1 Line Item Number / Title: 356120 / Fuzes	Item Number / Title [DODIC]: - / (ED29) FMU-143S/B 60 MIL SEC FUZE

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	10.000	10.000	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	10.000	10.000	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	10.000	10.000	-	-	-

(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 Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	-	-	-	0.006	1,784	9.907	0.006	1,512	8.529	-	-	-	-	-	-	-	-	-
PA60 CONTAINER	-	-	-	0.000	1,873	0.056	0.000	1,549	0.049	-	-	-	-	-	-	-	-	-
PBXN-11	-	-	-	0.000	606	0.028	0.000	513	0.021	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	9.991	-	-	8.599	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	9.991	-	-	8.599	-	-	-	-	-	-	-	-	-
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.009	-	-	0.006	-	-	-	-	-	-	-	-	-
FIRST ARTICLE TEST	-	-	-	-	-	-	-	-	1.350	-	-	-	-	-	-	-	-	-
PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	0.045	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.009	-	-	1.401	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	10.000	-	-	10.000	-	-	-	-	-	-	-	-	-

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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18	P-1 Line Item Number / Title: 356120 / Fuzes	Item Number / Title [DODIC]: - / (ED29) FMU-143S/B 60 MIL SEC FUZE
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. The LAP quantity is the number of completed fuzes to be delivered into the AF inventory.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force														Date: May 2017					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18							P-1 Line Item Number / Title: 356120 / Fuzes							Aggregated Items Title: (ED51) FMU-152 FUZE SYSTEM, UNIVERSAL					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(ED51) FMU-152 FUZE SYSTEM, UNIVERSAL	A		-	-	-	0.003	45,899	137.698	0.003	59,847	179.541	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Uncategorized			-	-	-	-	-	137.698	-	-	179.541	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	137.698	-	-	179.541	-	-	0.000	-	-	-	-	-	0.000

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

Remarks:

- FMU-152A/B Joint Programmable Fuze (JPF) (EC11): A multi-function unitary fuze developed and procured for the Joint Direct Attack Munition and other conventional inventory weapons. The FMU-152A/B provides a highly reliable bomb fuze with multiple arm times, instantaneous and multiple short and long delay detonation times, hard target survivability, cockpit programmability, and increased service/shelf life. The JPF is compatible with MK-80 series guided and unguided bombs. It has replaced and/or supplemented the FMU-139A/B and FMU-139C/B, FMU-143, FMU-124, and M904/M905 fuzes, and provides the next generation of fuzing capability for hard target, general purpose, and guided bombs. This item is procured through AFLCMC/EB Armament Directorate, Eglin AFB, Florida. The Air Force is the lead service for procurement.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18	P-1 Line Item Number / Title: 356120 / Fuzes	Item Number / Title [DODIC]: - / (KY70) DSU-33D/B PROX SENSOR

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	17.896	13.363	17.000	-	17.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	17.896	13.363	17.000	-	17.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	17.896	13.363	17.000	-	17.000

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - (KY70) DSU-33D/B PROX SENSOR Cost																		
Recurring Cost																		
DSU-33D/B PROX FUZE ^(†)	-	-	-	0.003	6,171	17.896	0.003	4,607	13.363	0.005	3,400	17.000	-	-	-	0.005	3,400	17.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	17.896	-	-	13.363	-	-	17.000	-	-	-	-	-	17.000
<i>Subtotal: Hardware - (KY70) DSU-33D/B PROX SENSOR Cost</i>	-	-	-	-	-	17.896	-	-	13.363	-	-	17.000	-	-	-	-	-	17.000
Gross/Weapon System Cost	-	-	-	-	-	17.896	-	-	13.363	-	-	17.000	-	-	-	-	-	17.000

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18	P-1 Line Item Number / Title: 356120 / Fuzes	Item Number / Title [DODIC]: - / (KY70) DSU-33D/B PROX SENSOR
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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>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
DSU-33D/B PROX FUZE		2016	ATK TACTICAL SYSTEMS CO. / Rocket Center, WV	MIPR	ACC-ROCK ISLAND	Apr 2016	Apr 2017	6,171	0.003	Y		
DSU-33D/B PROX FUZE		2017	ATK TACTICAL SYSTEMS CO. / Rocket Center, WV	MIPR	ACC-ROCK ISLAND	Apr 2017	Apr 2018	4,607	0.003	Y		
DSU-33D/B PROX FUZE		2018	ATK TACTICAL SYSTEMS CO. / Rocket Center, WV	MIPR	ACC-ROCK ISLAND	Apr 2018	Apr 2019	3,400	0.005	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18	P-1 Line Item Number / Title: 356120 / Fuzes	Aggregated Items Title: FMU-139 NRE
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
FMU-139 NRE	A		-	-	-	-	-	8.595	-	-	4.105	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Uncategorized			-	-	-	-	-	8.595	-	-	4.105	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	8.595	-	-	4.105	-	-	0.000	-	-	-	-	-	0.000

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

Remarks:

The FMU-139D/B is a new general purpose fuze that is currently being pursued with the Navy. This fuze marries the AF FMU-152A/B and the Navy FMU-139C/B specs for a better buying power business case. Currently the Navy will not purchase/utilize the JPF due to safety concerns regarding the battery. These safety concerns are specific to the Navy employment and do no impact the Air Force. The contract for this effort was competitively awarded 17 SEP 15. The new design is currently being qualified and tested with production anticipated in FY18 & beyond. Because the design change is a re-packaging of current technology the program office was approved by their PEO to use production funds for the minimal NRE required.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18	P-1 Line Item Number / Title: 356120 / Fuzes	Item Number / Title [DODIC]: - / FMU-139D/B

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	-	-	-	6,185	6,185
Gross/Weapon System Cost (\$ in Millions)	-	8.590	-	7.062	15.463	22.525
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	8.590	-	7.062	15.463	22.525
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	8.590	-	7.062	15.463	22.525

(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 Millions)	-	-	-	-	0.003	0.004

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total				
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)		
Hardware - Hardware End Item Cost Cost																				
Recurring Cost																				
FMU-139 D/B Fuzes ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	0.003	6,185	15.463	0.003	6,185	15.463	
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.463	-	-	15.463	
<i>Subtotal: Hardware - Hardware End Item Cost Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.463	-	-	15.463	
Support - FMU-139D/B, PGM SPT, Qual Test Cost																				
Program Management Administration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.152	
Technical Support	-	-	-	-	-	8.590	-	-	-	-	-	-	-	-	-	-	-	-	2.363	
Testing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.547	
<i>Subtotal: Support - FMU-139D/B, PGM SPT, Qual Test Cost</i>	-	-	-	-	-	8.590	-	-	-	-	-	-	-	-	-	-	-	-	7.062	
Gross/Weapon System Cost	-	-	-	-	-	8.590	-	-	-	-	-	-	-	7.062	0.003	6,185	15.463	0.004	6,185	22.525

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18	P-1 Line Item Number / Title: 356120 / Fuzes	Item Number / Title [DODIC]: - / FMU-139D/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>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
FMU-139 D/B Fuzes	✓	2018	Orbital ATK / Rocket Center, WV	C / FFP	AFLCMC/EB - Weapons	May 2018	May 2018	6,185	0.003	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force															Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18							P-1 Line Item Number / Title: 356120 / Fuzes								Aggregated Items Title: FUZES (ITEMS LESS THAN \$5 MILLION)				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
FMU-152/B D-2 (EB93)	A		-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
FMU-143R/B FUZE (ED30)	A		-	-	-	0.006	1,267	7.140	-	-	0.000	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	7.140	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	7.140	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18	P-1 Line Item Number / Title: 356120 / Fuzes	Item Number / Title [DODIC]: - / (EE27) FMU-167 HTVSF

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	-	475	2,241	-	1,620	1,620
Gross/Weapon System Cost (\$ in Millions)	-	17.000	31.537	-	31.537	31.537
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	17.000	31.537	-	31.537	31.537
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	17.000	31.537	-	31.537	31.537

(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 Millions)	-	0.036	0.014	-	0.019	0.019

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
Hard Target Void Sensing Fuze CLIN 1001 ^(f)	-	-	-	0.020	475	9.270	0.012	2,241	27.870	-	-	-	0.017	1,620	27.938	0.017	1,620	27.938
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	9.270	-	-	27.870	-	-	-	-	-	27.938	-	-	27.938
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	9.270	-	-	27.870	-	-	-	-	-	27.938	-	-	27.938
Support - Support End Item Cost																		
Program Management Administration	-	-	-	-	-	0.739	-	-	1.802	-	-	-	-	-	1.973	-	-	1.973
Trainers/Spares	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
Engineering Change Order	-	-	-	-	-	2.000	-	-	0.000	-	-	-	-	-	0.635	-	-	0.635
Testing	-	-	-	-	-	4.386	-	-	0.916	-	-	-	-	-	0.520	-	-	0.520
FAAT	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
Life Cycle Surveillance Test	-	-	-	-	-	0.000	-	-	0.949	-	-	-	-	-	-	-	-	-
Technical Support	-	-	-	-	-	0.605	-	-	0.000	-	-	-	-	-	0.471	-	-	0.471
Misc Contracts (Targets)	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	7.730	-	-	3.667	-	-	-	-	-	3.599	-	-	3.599
Gross/Weapon System Cost	-	-	-	0.036	475	17.000	0.014	2,241	31.537	-	-	-	0.019	1,620	31.537	0.019	1,620	31.537

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18	P-1 Line Item Number / Title: 356120 / Fuzes	Item Number / Title [DODIC]: - / (EE27) FMU-167 HTVSF
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: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18	P-1 Line Item Number / Title: 356120 / Fuzes	Item Number / Title [DODIC]: - / (EE27) FMU-167 HTVSF
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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>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hard Target Void Sensing Fuze CLIN 1001		2016	Orbital ATK / Rocket Center, WV	C / FFP	AFLCMC/EB - Weapons	Sep 2016	Apr 2017	475	0.020	Y		
Hard Target Void Sensing Fuze CLIN 1001		2017	Orbital ATK / Rocket Center, WV	C / FFP	AFLCMC/EB - Weapons	Sep 2017	Apr 2018	2,241	0.012	Y		
Hard Target Void Sensing Fuze CLIN 1001	✓	2018	Orbital ATK / Rocket Cernter, WV	C / FFP	AFLCMC/EB - Weapons	Sep 2018	Apr 2019	1,620	0.017	Y		

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 02: Weapons / BSA 1: Small Arms	P-1 Line Item Number / Title: 357010 / SMALL ARMS
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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

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4.893	60.072	37.459	28.611	0.000	28.611	31.790	32.387	33.039	33.683	-	261.934
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4.893	60.072	37.459	28.611	0.000	28.611	31.790	32.387	33.039	33.683	-	261.934
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4.893	60.072	37.459	28.611	0.000	28.611	31.790	32.387	33.039	33.683	-	261.934

(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 Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Small Arms encompasses small caliber, hand fired weapons (pistols and rifles) used to support air base ground defense, aircrew protection, Office of Special Investigations, security functions, and other activities requiring small, portable firearms. This line also procures various accessories needed to improve or maintain existing weapons.

The M4 Carbine is a 5.56mm, gas-operated, air-cooled, magazine-fed, selective-rate, shoulder-fired weapon. It is fed by a 30-round magazine and has continued to replace select M16 series rifles. It provides the individual Airman operating in close quarters the capability to engage targets at extended ranges with accurate lethal fire. More compact than the M16 series rifle and featuring a collapsible stock, it achieves over 85% commonality with the M16A2 Rifle. The M4 carbine also includes a Combat Optic and the Modular Weapon System (MWS) which provides two additional magazines, the M4 Rail Assembly System and the Back-up Iron Sight.

The M320A1 Grenade Launcher is a lightweight, 40 mm, single-shot, add-on grenade launcher that attaches under the barrel of the M4-series of carbines. The M320A1 can also be used as a stand-alone weapon with a fold out, adjustable buttstock. Ambidextrous operating controls and sling mounting points allow the weapon to be fitted to the operator. The M320 can fire all of the high explosive, armor piercing, irritant gas, smoke, and illuminating rounds previously fired from the M203. However, because its breech opens to the side, instead of the pump-style of the M203, the M320A1 can also fire a variety of newer, longer rounds including the suite of non-lethal rounds. The swing out barrel also aids the operator in rapid reloading. The M320A1 features an aluminum rifled barrel and is accurate with a variety of ammunition to a distance of 350 meters.

The Modular Handgun System(MHS)is a DoD, non-developmental, COTS, full & open competition for a new DoD handgun to replace all M9s, M11s and Glock-19s in the inventory. The M17 and M18 are 9mm, lightweight, striker-fired semi-automatic pistols. The M17 will be the full size version and the M18 will be the compact version. The USAF has yet to determine if the configuration for the new General Officer Personal Defense Weapon will be the M17 or the M18.

The M134 Minigun is a 7.62X51mm NATO, six-barrel, air-cooled, electronically driven rotary machine gun that can fire up to 6,000 rounds per minute. The minigun can mount to different platforms. It features Gatling-style rotating barrels with an external power source.

PEs associated with this P-1 line are 0207227F, 0207580F, 0408011F and 0804731F.

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 02: Weapons / BSA 1: Small Arms **P-1 Line Item Number / Title:** 357010 / SMALL ARMS

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	M320A1 (40MM GRENADE LAUNCHER)				- / -	- / 0.803	- / 30.800	- / -	- / -	- / -
P-5	M4 Carbine (5.56mm)		A		- / 4.893	- / 38.854	- / 3.153	- / -	- / -	- / -
P-40a	Modular Handgun System (MHS)				- / -	- / -	- / -	- / 16.000	- / -	- / 16.000
P-40a	SMALL ARMS Items Less Than \$5M				- / -	- / 20.415	- / 3.506	- / 12.611	- / -	- / 12.611
P-40	Total Gross/Weapon System Cost				- / 4.893	- / 60.072	- / 37.459	- / 28.611	- / 0.000	- / 28.611

*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:
 FY2018 funding in the amount of \$28.611M procures M134 Mini Guns, Modular Handgun System (MHS), AN/PEQ-15 Laser Designators, M2A1 Machine Guns, M240B Machine Guns, M249 Automatic Rifle, M4A1 Carbine, Modular Combat Shotgun, weapon modification projects, First Destination Transportation costs, and PMA dollars to support small arms installation and unit mission requirements for all Air Force Personnel.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1 **P-1 Line Item Number / Title:** 357010 / SMALL ARMS **Aggregated Items Title:** M320A1 (40MM GRENADE LAUNCHER)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
M320A1 (40MM GRENADE LAUNCHER) ⁽¹⁾	A		-	-	-	-	-	0.803	0.006	5,500	30.800	-	-	-	-	-	-	-	-	
Subtotal: Uncategorized			-	-	-	-	-	0.803	-	-	30.800	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	0.803	-	-	30.800	-	-	-	-	-	-	-	-	

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

Remarks:

Unit costs for FY18 are estimates and are subject to change.

Footnotes:

⁽¹⁾ FY16 dollars are for Government Furnished Material (GFM).

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Exhibit P-5, Cost Analysis: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1	P-1 Line Item Number / Title: 357010 / SMALL ARMS	Item Number / Title [DODIC]: - / M4 Carbine (5.56mm)
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ID Code (A=Service Ready, B=Not Service Ready) : A **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	4.893	38.854	3.153	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	4.893	38.854	3.153	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	4.893	38.854	3.153	-	-	-

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Support - Support End Item Cost																		
M4 CARBINE (5.56mm)	0.001	5,283	4.893	0.001	37,727	38.854	0.001	2,810	3.153	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	4.893	-	-	38.854	-	-	3.153	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	4.893	-	-	38.854	-	-	3.153	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1 **P-1 Line Item Number / Title:** 357010 / SMALL ARMS **Aggregated Items Title:** Modular Handgun System (MHS)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Modular Handgun System																				
M17	A		-	-	-	-	-	-	-	-	0.000	70,850	14.170	-	-	-	0.000	70,850	14.170	
M18	A		-	-	-	-	-	-	-	-	0.000	9,000	1.800	-	-	-	0.000	9,000	1.800	
General Officer's Handgun	A		-	-	-	-	-	-	-	-	0.000	150	0.030	-	-	-	0.000	150	0.030	
Subtotal: Modular Handgun System			-	-	-	-	-	-	-	-	-	-	16.000	-	-	-	-	-	16.000	
Total			-	-	-	-	-	-	-	-	-	-	16.000	-	-	-	-	-	16.000	

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

Remarks:
The MHS is a DoD, non-developmental, COTS, full & open competition for a new DoD handgun to replace all M9s, M11s and Glock-19s in the inventory. The actual handgun has yet to be selected.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1 **P-1 Line Item Number / Title:** 357010 / SMALL ARMS **Aggregated Items Title:** SMALL ARMS Items Less Than \$5M

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
SMALL ARMS ITEMS LESS THAN \$5 MILLION																				
AN/PEQ-15 Laser Designator	A		-	-	-	0.001	1,000	0.874	0.001	265	0.246	0.001	100	0.090	-	-	-	0.001	100	0.090
M2A1 (.50 Cal Machine Gun)	A		-	-	-	0.013	20	0.250	0.014	20	0.280	0.014	10	0.140	-	-	-	0.014	10	0.140
M240B Machinegun (7.62mm)	A		-	-	-	0.008	50	0.400	0.008	25	0.203	0.008	25	0.203	-	-	-	0.008	25	0.203
Ballistic Sighting Module	A		-	-	-	0.002	5,284	11.678	-	-	-	-	-	-	-	-	-	-	-	-
M249 Automatic Rifle (5.56mm)	A		-	-	-	-	-	-	-	-	-	0.004	25	0.095	-	-	-	0.004	25	0.095
M4A1 Carbine (5.56mm - Auto)	A		-	-	-	0.001	1,200	0.800	0.001	25	0.017	0.001	25	0.017	-	-	-	0.001	25	0.017
Modular Combat Shotgun (12 Ga)	A		-	-	-	0.001	120	0.099	0.001	50	0.041	0.001	25	0.021	-	-	-	0.001	25	0.021
M9 Pistol (9mm)	A		-	-	-	0.001	7	0.008	0.001	500	0.340	-	-	-	-	-	-	-	-	-
Glock 19	A		-	-	-	0.000	1,175	0.443	-	-	-	-	-	-	-	-	-	-	-	-
M134 Mini Gun	A		-	-	-	-	-	-	-	-	-	0.050	160	8.000	-	-	-	0.050	160	8.000
MOD PROJECTS PARTS PROCUREMENT	A		-	-	-	-	-	0.486	-	-	0.350	-	-	0.250	-	-	-	-	-	0.250
FIRST DESTINATION TRANSPORTATION	A		-	-	-	-	-	3.070	-	-	1.200	-	-	1.836	-	-	-	-	-	1.836
PMA- OTHER GOVERNMENT COST	A		-	-	-	-	-	0.118	-	-	0.080	-	-	-	-	-	-	-	-	-
PMA- CONTRACTOR SERVICES	A		-	-	-	-	-	1.023	-	-	0.750	-	-	1.364	-	-	-	-	-	1.364
PMA-GPC	A		-	-	-	-	-	0.068	-	-	-	-	-	0.080	-	-	-	-	-	0.080
PMA-TRAVEL	A		-	-	-	-	-	0.080	-	-	-	-	-	0.080	-	-	-	-	-	0.080
PMA-RMIS CORPORATE TAX	A		-	-	-	-	-	0.153	-	-	-	-	-	0.150	-	-	-	-	-	0.150
Hold for Price Adjustments	A		-	-	-	-	-	0.865	-	-	-	-	-	0.285	-	-	-	-	-	0.285
Subtotal: SMALL ARMS ITEMS LESS THAN \$5 MILLION			-	-	-	-	-	20.415	-	-	3.506	-	-	12.611	-	-	-	-	-	12.611
Total			-	-	-	-	-	20.415	-	-	3.506	-	-	12.611	-	-	-	-	-	12.611

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

Remarks:
Unit costs for FY18 are estimates and subject to change.