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**Department of Defense  
Fiscal Year (FY) 2017 President's Budget Submission**

February 2016



**Air Force**

*Justification Book Volume 1 of 1*

***Procurement of Ammunition, Air Force***

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Air Force • President's Budget Submission FY 2017 • Procurement

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## Appropriation Language

### Fiscal Year (FY) 2017 President's Budget 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, \$2,165,127,000 to remain available for obligation until September 30, 2019.

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Department of the Air Force  
 FY 2017 President's Budget  
 Exhibit P-1 FY 2017 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

27 Jan 2016

Appropriation: Procurement of Ammunition, Air Force

Budget Activity -----	FY 2015 (Base & OCO) -----	FY 2016 Base Enacted -----	FY 2016 OCO Enacted -----	FY 2016 Total Enacted -----
01. Ammunition	855,046	1,684,443	228,874	1,913,317
02. Weapons	24,648	60,072		60,072
Total Procurement of Ammunition, Air Force	879,694	1,744,515	228,874	1,973,389

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P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 27, 2016 at 10:18:54

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Department of the Air Force  
FY 2017 President's Budget  
Exhibit P-1 FY 2017 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

27 Jan 2016

Appropriation: Procurement of Ammunition, Air Force

Budget Activity -----	FY 2017 Base -----	FY 2017 OCO -----	FY 2017 Total -----
01. Ammunition	1,640,260	487,408	2,127,668
02. Weapons	37,459		37,459
Total Procurement of Ammunition, Air Force	1,677,719	487,408	2,165,127

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P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 27, 2016 at 10:18:54

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Department of the Air Force  
FY 2017 President's Budget  
Exhibit P-1 FY 2017 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

27 Jan 2016

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO) Quantity Cost	FY 2016 Base Enacted Quantity Cost	FY 2016 OCO Enacted Quantity Cost	FY 2016 Total Enacted Quantity Cost	S e c	
----	-----	-----	-----	-----	-----	-----	-	
Budget Activity 01: Ammunition								
-----								
Rockets								
1	Rockets	A	4,696	23,788		23,788	U	
Cartridges								
2	Cartridges	A	131,189	156,702	8,371	165,073	U	
Bombs								
3	Practice Bombs	A	30,098	89,759		89,759	U	
4	General Purpose Bombs	A	204,907	636,956	17,031	653,987	U	
5	Massive Ordnance Penetrator (MOP)			39,690		39,690	U	
6	Joint Direct Attack Munition	A	8786	228,439	13848	349,563	8511 184,412 22359 533,975	U
Other Items								
7	Cad/Pad	A	29,989	58,266		58,266	U	
8	Explosive Ordnance Disposal (EOD)	A	6,925	5,612		5,612	U	
9	Spares and Repair Parts	A	395	103		103	U	
10	Modifications	A	1,610	1,102		1,102	U	
11	Items Less Than \$5 Million	A	4,237	3,044		3,044	U	
Flares								
12	Flares	A	103,296	120,935	11,064	131,999	U	

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Fuzes					
13 Fuzes	A	109,265	198,923	7,996	206,919 U
		-----	-----	-----	-----
Total Ammunition		855,046	1,684,443	228,874	1,913,317

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 27, 2016 at 10:18:54

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Department of the Air Force  
FY 2017 President's Budget  
Exhibit P-1 FY 2017 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

27 Jan 2016

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Base Quantity	Cost	FY 2017 OCO Quantity	Cost	FY 2017 Total Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
Budget Activity 01: Ammunition									
-----									
Rockets									
1	Rockets	A		18,734		60,000		78,734	U
Cartridges									
2	Cartridges	A		220,237		9,830		230,067	U
Bombs									
3	Practice Bombs	A		97,106				97,106	U
4	General Purpose Bombs	A		581,561		7,921		589,482	U
5	Massive Ordnance Penetrator (MOP)			3,600				3,600	U
6	Joint Direct Attack Munition	A	12133	303,988	18531	403,126	30664	707,114	U
Other Items									
7	Cad/Pad	A		38,890				38,890	U
8	Explosive Ordnance Disposal (EOD)	A		5,714				5,714	U
9	Spares and Repair Parts	A		740				740	U
10	Modifications	A		573				573	U
11	Items Less Than \$5 Million	A		5,156				5,156	U
Flares									
12	Flares	A		134,709		6,531		141,240	U

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Fuzes

13 Fuzes	A	229,252	229,252	U
		-----	-----	
Total Ammunition		1,640,260	487,408	2,127,668

P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 27, 2016 at 10:18:54

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Department of the Air Force  
 FY 2017 President's Budget  
 Exhibit P-1 FY 2017 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

27 Jan 2016

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO) Quantity Cost	FY 2016 Base Enacted Quantity Cost	FY 2016 OCO Enacted Quantity Cost	FY 2016 Total Enacted Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----	-
Budget Activity 02: Weapons							
-----							
Small Arms							
14	Small Arms	A	24,648	60,072		60,072	U
			-----	-----	-----	-----	
Total Weapons			24,648	60,072		60,072	
			-----	-----	-----	-----	
Total Procurement of Ammunition, Air Force			879,694	1,744,515	228,874	1,973,389	

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Department of the Air Force  
 FY 2017 President's Budget  
 Exhibit P-1 FY 2017 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

27 Jan 2016

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Base Quantity	Cost	FY 2017 OCO Quantity	Cost	FY 2017 Total Quantity	Cost	S e c
----	-----	-----	-----	----	-----	----	-----	----	-
Budget Activity 02: Weapons									
-----									
Small Arms									
14	Small Arms	A	37,459				37,459		U
			-----		-----		-----		
Total Weapons			37,459				37,459		
			-----		-----		-----		
Total Procurement of Ammunition, Air Force			1,677,719		487,408		2,165,127		

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2	01	12	352010	Cartridges.....	Volume 1 - 11
3	01	13	353010	Practice Bombs.....	Volume 1 - 41
4	01	13	353020	General Purpose Bombs.....	Volume 1 - 49
5	01	11	353190	MASSIVE ORDNANCE PENETRATOR (MOP).....	Volume 1 - 67
6	01	13	353620	JOINT DIRECT ATTACK MUNITION.....	Volume 1 - 71
7	01	15	355100	CAD/PAD.....	Volume 1 - 89
8	01	15	355450	Explosive Ordnance Disposal (EOD).....	Volume 1 - 93
9	01	15	355900	SPARES AND REPAIR PARTS.....	Volume 1 - 97
10	01	15	355970	MODIFICATIONS.....	Volume 1 - 101
11	01	15	355990	ITEMS LESS THAN \$5 MILLION.....	Volume 1 - 105
12	01	16	356010	FLARES.....	Volume 1 - 109
13	01	18	356120	Fuzes.....	Volume 1 - 127

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*Appropriation 3011F: Procurement of Ammunition, Air Force*

Line #	BA	BSA	Line Item Number	Line Item Title	Page
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**Line Item Table of Contents (Alphabetically by Line Item Title)**

<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
CAD/PAD	355100	7	01	15.....	Volume 1 - 89
Cartridges	352010	2	01	12.....	Volume 1 - 11
Explosive Ordnance Disposal (EOD)	355450	8	01	15.....	Volume 1 - 93
FLARES	356010	12	01	16.....	Volume 1 - 109
Fuzes	356120	13	01	18.....	Volume 1 - 127
General Purpose Bombs	353020	4	01	13.....	Volume 1 - 49
ITEMS LESS THAN \$5 MILLION	355990	11	01	15.....	Volume 1 - 105
JOINT DIRECT ATTACK MUNITION	353620	6	01	13.....	Volume 1 - 71
MASSIVE ORDNANCE PENETRATOR (MOP)	353190	5	01	11.....	Volume 1 - 67
MODIFICATIONS	355970	10	01	15.....	Volume 1 - 101
Practice Bombs	353010	3	01	13.....	Volume 1 - 41
Rockets	351010	1	01	11.....	Volume 1 - 1
SMALL ARMS	357010	14	02	01.....	Volume 1 - 143
SPARES AND REPAIR PARTS	355900	9	01	15.....	Volume 1 - 97

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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
LANTIRN	- Low Altitude Navigation and Targeting Infra Red System for Night
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
OFP	- 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

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PY	- Prior Year
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
SAM	- Surface-to-Air Missile
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
UHF	- Ultra High Frequency
USA	- United States of America
XML	- Extensible Markup Language

### ***BASE / ORGANIZATIONAL ACRONYMS***

11 WING	- 11th Support Wing
ACC	- Air Combat Command
AETC	- Air Education & Training Command
AFCOA	- 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

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AFMETCAL	- Air Force Metrology and Calibration Office
AFMLO	- Air Force Medical Logistics Office
AFNEWS	- Air Force Information & News Service Center
AFOSI	- Air Force Office of Special Investigation
AFOTEC	- Air Force Operational Test & Evaluation Center
AFPC	- Air Force Personnel Center
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

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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

### ***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	- Uninitiated Contract Action
WP	- Work Project

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### ***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
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

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***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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 11: Rockets							<b>P-1 Line Item Number / Title:</b> 351010 / Rockets					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	4.696	23.788	18.734	60.000	78.734	6.304	2.283	13.808	14.054	-	143.667
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	4.696	23.788	18.734	60.000	78.734	6.304	2.283	13.808	14.054	-	143.667
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>4.696</b>	<b>23.788</b>	<b>18.734</b>	<b>60.000</b>	<b>78.734</b>	<b>6.304</b>	<b>2.283</b>	<b>13.808</b>	<b>14.054</b>	-	<b>143.667</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

The Air Force uses 2.75-inch rockets to support the Urgent Operational Need (UON) Advanced Precision Kill Weapons System (APKWS II RW+) with high explosive warheads. The 2.75-inch rockets are also used to mark target locations for other aircraft during combat and training operations. Rockets constitute the primary target marking munition used by forward air control aircraft, which launch from reusable pods carried on aircraft pylons. The 2.75-inch diameter rocket with folding fins utilizes high explosive, white phosphorous, or target practice warheads, and is fired from both high and low speed aircraft.

- 2.75 Inch Rocket Motor (HA07): A single-stage, solid grained rocket motor used to propel guided and unguided payloads to their target. Payloads include 2.75 Inch Illuminating Warhead (H812), Infrared Illuminating Rocket (HA06), WP Warhead (H855), Signature Practice Warhead (H872), High Explosive Warheads (H842 and H843), as well as a guidance section to support APKWS II RW+ (HA79), to their targets via the LAU-131A and LAU-131A/A seven tube rocket launchers. The 2.75 Inch Rocket is used to mark target locations for other aircraft and as a low collateral damage guided rocket. This item is procured by OO-ALC through the U.S. Army Missile Command, Joint Attack Munitions Systems (JAMS), PEO Missiles and Space at Redstone Arsenal Alabama. The APKWS II RW+ guidance section is procured through the Department of Navy PMA-242 at Patuxent River Naval Air Station.
- 2.75 Inch White Phosphorus Warhead (H855): Used with the 2.75 inch Rocket Motor (HA07), provides forward air control aircraft with target locations from a standoff distance in a hostile environment. This item is procured by OO-ALC through the U.S. Army Missile Command, Joint Attack Munitions Systems (JAMS), PEO Missiles and Space at Redstone Arsenal Alabama.
- 2.75 Inch IR Illuminating Rocket (HA06); used with the 2.75inch rocket motor (HA07, provides forward air control aircraft with the target locations from a standoff distance in a hostile environment.
- LAU-131A/A is a seven tube (capacity) extended length launcher that can fire legacy length 2.75-inch and the extended length APKWS II RW+ rockets. The extended length is 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 Warhead, WGU-59B guidance and control section, and a MK66 mod 4 rocket motor launched from LAU-131 A/A rocket launcher to provide a fragmentation capability. When the APKWS II RW+ AUR incorporates the M282 warhead it will provide a precision penetration capability for structures and armored vehicles (except for tanks).

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force		<b>Date:</b> February 2016	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 11: Rockets		<b>P-1 Line Item Number / Title:</b> 351010 / Rockets	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A		<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A		
<p>- M282 Multi-Purpose Penetrator (MPP)(HA96): The M282 MPP warhead provides aircrew and ground commanders greatly enhanced weaponeering options to engage armored vehicles (except tanks) and 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 is a low-cost penetrator warhead that addresses an AF Urgent Operational Need (UON) for continuing Overseas Contingency Operations and will directly improve the warfighters' efficiency in a combat environment. 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 OO-ALC through the U.S Army Missile Command, Joint Attack Munitions Systems (JAMS), PEO Missiles and Space at Redstone Arsenal Alabama.</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 is contained in PE 0207599F and PE 0208030F.</p>			



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 11: Rockets					<b>P-1 Line Item Number / Title:</b> 351010 / Rockets				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	(H855) WHD 2.75 RKT SMK M156 PD M427	P-5a	A	- / -	- / -	- / 9.788	- / 5.939	- / -	- / 5.939
P-40a	(HA06) WHD 2.75 RKT, INFRARED ILLUM			- / -	- / 3.814	- / 14.000	- / 9.359	- / -	- / 9.359
P-5	APKWS	P-5a	A	- / -	- / -	- / -	- / -	- / 60.000	- / 60.000
P-40a	ROCKETS (ITEMS LESS THAN \$5 MILLION)			- / -	- / 0.882	- / -	- / 3.436	- / -	- / 3.436
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			- / -	- / 4.696	- / 23.788	- / 18.734	- / 60.000	- / 78.734
<p>*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									
<p><b>Justification:</b></p> <p>FY2017 Purchase of rockets, 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. The AUR is launched from reusable pods carried on aircraft pylons.</p> <p>FY2017 OCO: The requested funds for Advanced Precision Kill Weapon System (APKWS) are needed to procure all-up-rounds to provide a low cost precision kill capability on F-16s and A-10s operating in the theater of operations in FY18. APKWS AURs procured with FY15 funds Congress approved in the new start UON are projected to be exhausted by FY18.</p> <p>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.</p>									

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Exhibit P-5, Cost Analysis: PB 2017 Air Force											Date: February 2016								
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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:									
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				-		-		9.788		5.939		-		5.939					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				-		-		9.788		5.939		-		5.939					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				-		-		9.788		5.939		-		5.939					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements		Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																			
Recurring Cost																			
2.75 WARHEAD WP SMOKE - H855 <sup>(†)</sup>		-	-	-	-	-	-	405.00	24,168	9.788	429.71	13,821	5.939	-	-	-	429.71	13,821	5.939
Subtotal: Recurring Cost		-	-	-	-	-	-	-	-	9.788	-	-	5.939	-	-	-	-	-	5.939
Subtotal: Hardware - Hardware End Item Cost		-	-	-	-	-	-	-	-	9.788	-	-	5.939	-	-	-	-	-	5.939
Gross/Weapon System Cost		-	-	-	-	-	-	-	-	9.788	-	-	5.939	-	-	-	-	-	5.939
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.																			
<sup>(†)</sup> indicates the presence of a P-5a																			

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force									Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11				P-1 Line Item Number / Title: 351010 / Rockets					Item Number / Title [DODIC]: - / (H855) WHD 2.75 RKT SMK M156 PD M427			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.75 WARHEAD WP SMOKE - H855		2016	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Jun 2016	Aug 2017	24,168	405.00	Y		
2.75 WARHEAD WP SMOKE - H855		2017	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Jun 2017	Jun 2018	13,821	429.71	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11							P-1 Line Item Number / Title: 351010 / Rockets								Aggregated Items Title: (HA06) WHD 2.75 RKT, INFRARED ILLUM					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(HA06) WARHEAD, 2.75 ILLUM	A		-	-	-	1,815.00	2,101	3.814	1,835.10	7,629	14.000	2,537.00	3,689	9.359	-	-	-	2,537.00	3,689	9.359
Subtotal: Uncategorized			-	-	-	-	-	3.814	-	-	14.000	-	-	9.359	-	-	-	-	-	9.359
Total			-	-	-	-	-	3.814	-	-	14.000	-	-	9.359	-	-	-	-	-	9.359

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

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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:								
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		-		-		-		60.000		60.000				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		-		-		-		60.000		60.000				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		-		-		-		60.000		60.000				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Advanced Precision Kill Weapon System (APKWS) Cost																		
Recurring Cost																		
Guidance Section <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	29,278.30	1,750	51.237	29,278.30	1,750	51.237
Rocket Motor <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	495.23	1,000	0.495	495.23	1,000	0.495
Launcher <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	19,003.00	100	1.900	19,003.00	100	1.900
Warhead M151 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	1,496.00	875	1.309	1,496.00	875	1.309
Warhead M282 <sup>(†)</sup>	-	-	-	-	-	-	-	-	-	-	-	-	3,518.70	875	3.079	3,518.70	875	3.079
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58.020	-	-	58.020
Subtotal: Hardware - Advanced Precision Kill Weapon System (APKWS) Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58.020	-	-	58.020
Support - APKWS Cost																		
Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.980	-	-	1.980
Subtotal: Support - APKWS Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.980	-	-	1.980
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60.000	-	-	60.000
†) indicates the presence of a P-5a																		

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Air Force								<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 11				<b>P-1 Line Item Number / Title:</b> 351010 / Rockets				<b>Item Number / Title [DODIC]:</b> - / APKWS			

<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
Guidance Section	✓	2017	BAE / Nashua, NH	SS / FFP	NAVAIR	Jan 2017	Dec 2017	1,750	29,278.30	Y		
Rocket Motor	✓	2017	General Dynamics / Burlington, VT	SS / FFP	Redstone Arsenal, AL	Apr 2017	Apr 2018	1,000	495.23	Y		
Launcher	✓	2017	Arnold Defense / St. Louis, MO	SS / FFP	TBD	Jun 2017	Jun 2018	100	19,003.00	Y		
Warhead M151	✓	2017	General Dynamics / Burlington, VT	C / FFP	Redstone Arsenal, AL	Apr 2017	Apr 2018	875	1,496.00	Y		
Warhead M282	✓	2017	General Dynamics / Burlington, VT	C / FFP	Redstone Arsenal, AL	Apr 2017	Apr 2018	875	3,518.70	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11							P-1 Line Item Number / Title: 351010 / Rockets								Aggregated Items Title: ROCKETS (ITEMS LESS THAN \$5 MILLION)					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(H149) LAUNCHER LAU-131A F/2.75	A		-	-	-	10,500.00	84	0.882	-	-	-	10,638.30	323	3.436	-	-	-	10,638.30	323	3.436
Subtotal: Uncategorized			-	-	-	-	-	0.882	-	-	-	-	-	3.436	-	-	-	-	-	3.436
Total			-	-	-	-	-	0.882	-	-	-	-	-	3.436	-	-	-	-	-	3.436

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12: Cartridges							<b>P-1 Line Item Number / Title:</b> 352010 / Cartridges					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	131.189	165.073	220.237	9.830	230.067	165.132	155.714	151.848	146.807	-	1,145.830
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	131.189	165.073	220.237	9.830	230.067	165.132	155.714	151.848	146.807	-	1,145.830
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>131.189</b>	<b>165.073</b>	<b>220.237</b>	<b>9.830</b>	<b>230.067</b>	<b>165.132</b>	<b>155.714</b>	<b>151.848</b>	<b>146.807</b>	-	<b>1,145.830</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b>  FY2015 funding includes \$2.469M appropriated for Overseas Contingency Operations.  FY2016 funding includes \$8.371M appropriated for Overseas Contingency Operations.</p> <p>The following Weapon System Cost Elements are represented in this P-1 line:</p> <p>-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.</p> <p>-25MM TP, PGU-23/U (A978): 25MM PGU-23 is a target practice round used in the GAU-12/A gun systems applicable to the F-35 and AC-130/U aircraft. The round is also a kinetic energy combat round used to limit collateral damage potential. Air Force procures 25MM through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.</p> <p>-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.</p> <p>-20MM Target Practice (TP) Round PGU-27A/B (AA24): This round is used for air-to-air and air-to-ground training in the M61 aircraft gun on F-15, F-16 and F-22A aircraft. The Air Force procures various links, linking methods and mixtures of target practice and target practice tracer ammunition depending on the specific requirement of the system and the training program. The cartridge is electrically primed and has no fuze. The projectile is a solid slug sized to match the ballistics of the 20MM combat round. 20MM is the primary ammunition used in Air Force and Navy aircraft gun systems to provide a training capability to complement the PGU-28 high explosive incendiary combat round and ensure training is consistent with combat operations. Air Force procures 20MM through the Army Single Manager for Conventional Ammunition (SMCA), Department of the Army and engineering support from the Navy.</p> <p>-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.</p>												

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12: Cartridges							<b>P-1 Line Item Number / Title:</b> 352010 / Cartridges		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A		
<b>Line Item MDAP/MAIS Code:</b> N/A				<b>Item MDAP/MAIS Code(s):</b> N/A					
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	(A143) 7.62MM BALL LINKED (M80)	P-5a	A	- / -	- / 5.000	- / 5.000	- / 5.500	- / -	- / 5.500
P-40a	(A978) CTG, 25MM, TP (PGU-23/U)			- / -	- / -	- / 2.412	- / -	- / -	- / -
P-5	(AA22) 20MM PGU-28A/B SEMI-AP, HEI	P-5a	A	- / -	- / -	- / 13.837	- / 38.859	- / 9.830	- / 48.689
P-5	(AA24) 20MM, TP PGU-27A/B	P-5a	A	- / -	- / 40.669	- / 24.348	- / 42.628	- / -	- / 42.628
P-40a	(AA40) 5.56MM, FRANGIBLE			- / -	- / 8.000	- / 8.000	- / 8.000	- / -	- / 8.000
P-40a	(AB09) 5.56 BLUE MARKING CARTRIDGE			- / -	- / 2.000	- / 2.000	- / 5.000	- / -	- / 5.000
P-5	(AB57) 5.56 CLIPPED BALL, LEAD FREE	P-5a	A	- / -	- / 7.000	- / 5.548	- / 6.000	- / -	- / 6.000
P-40a	(AB98) 25MM PGU-48/B			- / -	- / -	- / -	- / 10.000	- / -	- / 10.000
P-5	(B116) 30MM PGU-15/B, TP	P-5a	A	- / -	- / 32.250	- / 52.643	- / 41.707	- / -	- / 41.707
P-40a	(MG11) CTG IMPULSE BBU-36/B			- / -	- / -	- / 3.427	- / 5.000	- / -	- / 5.000
P-40a	(MG62) BBU-35/B IMPULSE CARTRIDGE			- / -	- / -	- / 5.000	- / 5.895	- / -	- / 5.895
P-40a	(SS-27) BBU-48/B IMPULSE CARTRIDGE			- / -	- / -	- / 4.500	- / 4.000	- / -	- / 4.000
P-40a	CARTRIDGES (ITEMS LESS THAN \$5 MILLION)			- / -	- / 36.270	- / 38.358	- / 47.648	- / -	- / 47.648
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			- / -	- / 131.189	- / 165.073	- / 220.237	- / 9.830	- / 230.067

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

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

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

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

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

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

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

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

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016								
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12							P-1 Line Item Number / Title: 352010 / Cartridges						Item Number / Title [DODIC]: - / (A143) 7.62MM BALL LINKED (M80)								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
Procurement Quantity ( <i>Units in Each</i> )				-			-			-			-			-					
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				-			5.000			5.000			5.500			-			5.500		
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-			-			-			-			-			-		
Net Procurement (P-1) ( <i>\$ in Millions</i> )				-			5.000			5.000			5.500			-			5.500		
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-			-			-			-			-			-		
Total Obligation Authority ( <i>\$ in Millions</i> )				-			5.000			5.000			5.500			-			5.500		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares ( <i>\$ in Millions</i> )				-			-			-			-			-			-		
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware - Hardware End Item Cost																					
Recurring Cost																					
7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT <sup>(†)</sup>	-	-	-	0.53	8,740,286	4.632	0.53	9,041,509	4.792	0.52	10,101,923	5.253	-	-	-	0.52	10,101,923	5.253			
Subtotal: Recurring Cost	-	-	-	-	-	4.632	-	-	4.792	-	-	5.253	-	-	-	-	-	5.253			
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	4.632	-	-	4.792	-	-	5.253	-	-	-	-	-	5.253			
Support - Support End Item Cost																					
PRODUCTION ENGINEERING	-	-	-	-	-	0.287	-	-	0.205	-	-	0.229	-	-	-	-	-	0.229			
ACCEPTANCE TESTING	-	-	-	-	-	0.075	-	-	-	-	-	0.013	-	-	-	-	-	0.013			
QUALITY ASSURANCE	-	-	-	-	-	0.006	-	-	0.003	-	-	0.005	-	-	-	-	-	0.005			
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.368	-	-	0.208	-	-	0.247	-	-	-	-	-	0.247			
Gross/Weapon System Cost	-	-	-	-	-	5.000	-	-	5.000	-	-	5.500	-	-	-	-	-	5.500			
Remarks:																					
Prices are provided by the Single Manager for Conventional Ammunition (SMCA), Department of the Army. Prices shown represent the SMCA efforts to obtain hardware, containers, pallets, straps, explosive material, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack the Air Force order. Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).																					

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

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT		2015	ALLIANT TECH (LCAAP) / INDEPENDENCE, MO	MIPR	AFLCMC Hill AFB	Mar 2015	Oct 2015	8,740,286	0.53	Y		
7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT		2016	ALLIANT TECH (LCAAP) / INDEPENDENCE, MO	MIPR	AFLCMC Hill AFB	Mar 2016	Oct 2016	9,041,509	0.53	Y		
7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT		2017	ALLIANT TECH (LCAAP) / INDEPENDENCE, MO	MIPR	AFLCMC Hill AFB	Mar 2017	Oct 2017	10,101,923	0.52	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12						P-1 Line Item Number / Title: 352010 / Cartridges						Aggregated Items Title: (A978) CTG, 25MM, TP (PGU-23/U)								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(A978) CTG, 25MM, TP (PGU-23/U)		A	-	-	-	-	-	-	26.22	91,991	2.412	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	2.412	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	2.412	-	-	-	-	-	-	-	-	-

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



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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12						P-1 Line Item Number / Title: 352010 / Cartridges						Item Number / Title [DODIC]: - / (AA22) 20MM PGU-28A/B SEMI-AP, HEI							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				-		-		13.837		38.859		9.830		48.689					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				-		-		13.837		38.859		9.830		48.689					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				-		-		13.837		38.859		9.830		48.689					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements		Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																			
Recurring Cost																			
LOAD, ASSEMBLE, PACK <sup>(†)</sup>		-	-	-	-	-	-	24.95	545,558	13.612	24.54	1,534,950	37.668	24.54	388,290	9.529	24.54	1,923,240	47.196
BOX, METAL M548		-	-	-	-	-	-	40.94	1,980	0.081	43.53	5,230	0.228	43.53	1,323	0.058	43.53	6,553	0.285
PALLET MK3-0		-	-	-	-	-	-	179.56	154	0.028	176.91	240	0.042	176.91	60	0.011	176.91	300	0.053
Subtotal: Recurring Cost		-	-	-	-	-	-	-	-	13.720	-	-	37.938	-	-	9.597	-	-	47.535
Subtotal: Hardware - Hardware End Item Cost		-	-	-	-	-	-	-	-	13.720	-	-	37.938	-	-	9.597	-	-	47.535
Support - Support End Item Cost																			
QUALITY ASSURANCE		-	-	-	-	-	-	-	-	0.028	-	-	0.050	-	-	0.013	-	-	0.063
FIRST ARTICLE TESTING		-	-	-	-	-	-	-	-	0.089	-	-	0.871	-	-	0.220	-	-	1.091
Subtotal: Support - Support End Item Cost		-	-	-	-	-	-	-	-	0.117	-	-	0.921	-	-	0.233	-	-	1.154
Gross/Weapon System Cost		-	-	-	-	-	-	-	-	13.837	-	-	38.859	-	-	9.830	-	-	48.689
Remarks: Prices are provided by the Single Manager for Conventional Ammunition (SMCA), Department of the Army. Prices shown represent the SMCA efforts to obtain containers, pallets, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack the Air Force order. Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).																			

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 12	<b>P-1 Line Item Number / Title:</b> 352010 / Cartridges	<b>Item Number / Title [DODIC]:</b> - / (AA22) 20MM PGU-28A/B SEMI-AP, HEI
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<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&amp;H) cost is associated with transferring the completed order from production to the first destination.</p> <p>(†) indicates the presence of a P-5a</p>		

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

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK		2016	General Dynamics & Alliant Tech / Marion, IL and Plymouth, MN	MIPR	AFLCMC Hill AFB	Mar 2016	Mar 2017	545,558	24.95	Y		
LOAD, ASSEMBLE, PACK		2017	General Dynamics & Alliant Tech / Marion, IL and Plymouth, MN	MIPR	AFLCMC Hill AFB	Mar 2017	Mar 2018	1,534,950	24.54	Y		
LOAD, ASSEMBLE, PACK	✓	2017	General Dynamics & Alliant Tech / Marion, IL and Plymouth, MN	MIPR	AFLCMC Hill AFB	Mar 2017	Mar 2018	388,290	24.54	Y		

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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12						P-1 Line Item Number / Title: 352010 / Cartridges						Item Number / Title [DODIC]: - / (AA24) 20MM, TP PGU-27A/B							
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				-		40.669		24.348		42.628		-		42.628					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P-1) (\$ in Millions)				-		40.669		24.348		42.628		-		42.628					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				-		40.669		24.348		42.628		-		42.628					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements		Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																			
Recurring Cost																			
LOAD, ASSEMBLE, PACK <sup>(†)</sup>	-	-	-	12.06	3,310,000	39.919	11.16	2,131,270	23.785	11.49	3,630,100	41.710	-	-	-	11.49	3,630,100	41.710	
BOX METAL M548	-	-	-	40.17	13,430	0.539	40.94	8,628	0.353	41.74	14,696	0.613	-	-	-	41.74	14,696	0.613	
PALLET MK3-0	-	-	-	161.89	588	0.095	179.56	378	0.068	176.91	643	0.114	-	-	-	176.91	643	0.114	
Subtotal: Recurring Cost	-	-	-	-	-	40.553	-	-	24.206	-	-	42.437	-	-	-	-	-	42.437	
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	40.553	-	-	24.206	-	-	42.437	-	-	-	-	-	42.437	
Support - Support End Item Cost																			
QUALITY ASSURANCE	-	-	-	-	-	0.023	-	-	0.009	-	-	0.012	-	-	-	-	-	0.012	
FIRST ARTICLE TEST	-	-	-	-	-	0.090	-	-	0.130	-	-	0.173	-	-	-	-	-	0.173	
ACCEPTANCE TESTING	-	-	-	-	-	0.003	-	-	0.003	-	-	0.006	-	-	-	-	-	0.006	
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.116	-	-	0.142	-	-	0.191	-	-	-	-	-	0.191	
Gross/Weapon System Cost	-	-	-	-	-	40.669	-	-	24.348	-	-	42.628	-	-	-	-	-	42.628	
Remarks:																			
Prices are provided by the Single Manager for Conventional Ammunition (SMCA), Department of the Army. Prices shown represent the SMCA efforts to obtain containers, pallets, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack the Air Force order. Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).																			
Load, Assemble and Pack (LAP) costs are applicable to production, build-up and packaging the individual round. The LAP quantity is the number of completed rounds to be delivered into the AF inventory.																			

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

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Air Force								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 12				<b>P-1 Line Item Number / Title:</b> 352010 / Cartridges				<b>Item Number / Title [DODIC]:</b> - / (AA24) 20MM, TP PGU-27A/B				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK		2015	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND PLYMOUTH, MN	MIPR	AFLCMC Hill AFB	Mar 2015	Mar 2016	3,310,000	12.06	Y		Jan 2015
LOAD, ASSEMBLE, PACK		2016	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND PLYMOUTH, MN	MIPR	AFLCMC Hill AFB	Mar 2016	Mar 2017	2,131,270	11.16	Y		Jan 2016
LOAD, ASSEMBLE, PACK		2017	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND PLYMOUTH, MN	MIPR	AFLCMC Hill AFB	Mar 2017	Apr 2018	3,630,100	11.49	Y		Jan 2017

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2017 Air Force										<b>Date:</b> February 2016	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 12					<b>P-1 Line Item Number / Title:</b> 352010 / Cartridges					<b>Aggregated Items Title:</b> (AA40) 5.56MM, FRANGIBLE	

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

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

**Remarks:**

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

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

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



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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12						P-1 Line Item Number / Title: 352010 / Cartridges						Item Number / Title [DODIC]: - / (AB57) 5.56 CLIPPED BALL, LEAD FREE						
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		7.000		5.548		6.000		-		6.000				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		7.000		5.548		6.000		-		6.000				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		7.000		5.548		6.000		-		6.000				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK <sup>(†)</sup>	-	-	-	0.39	16,357,050	6.379	0.32	15,936,000	5.100	0.30	18,456,666	5.537	-	-	-	0.30	18,456,666	5.537
BOX, METAL M2A2	-	-	-	10.38	19,628	0.204	12.49	19,131	0.239	13.06	21,480	0.281	-	-	-	13.06	21,480	0.281
Subtotal: Recurring Cost	-	-	-	-	-	6.583	-	-	5.338	-	-	5.818	-	-	-	-	-	5.818
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	6.583	-	-	5.338	-	-	5.818	-	-	-	-	-	5.818
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.408	-	-	0.207	-	-	0.179	-	-	-	-	-	0.179
QUALITY ASSURANCE	-	-	-	-	-	0.009	-	-	0.003	-	-	0.003	-	-	-	-	-	0.003
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.417	-	-	0.210	-	-	0.182	-	-	-	-	-	0.182
Gross/Weapon System Cost	-	-	-	-	-	7.000	-	-	5.548	-	-	6.000	-	-	-	-	-	6.000
(†) indicates the presence of a P-5a																		

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

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12						P-1 Line Item Number / Title: 352010 / Cartridges						Aggregated Items Title: (AB98) 25MM PGU-48/B								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
25MM PGU-48/B		A	-	-	-	-	-	-	-	-	-	207.00	48,309	10.000	-	-	-	207.00	48,309	10.000
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	-	-	-	10.000	-	-	-	-	-	10.000
Total			-	-	-	-	-	-	-	-	-	-	-	10.000	-	-	-	-	-	10.000

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

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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12						P-1 Line Item Number / Title: 352010 / Cartridges						Item Number / Title [DODIC]: - / (B116) 30MM PGU-15/B, TP						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		32.250		52.643		41.707		-		41.707				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		32.250		52.643		41.707		-		41.707				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		32.250		52.643		41.707		-		41.707				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD,ASSEMBLE,PACK <sup>(†)</sup>	-	-	-	22.00	1,336,035	29.393	21.58	2,248,750	48.528	22.10	1,734,900	38.341	-	-	-	22.10	1,734,900	38.341
CONTAINER CNU-332E	-	-	-	498.00	2,405	1.198	486.75	4,047	1.970	504.45	3,122	1.575	-	-	-	504.45	3,122	1.575
TUBE AND STRAP ASSEMBLY	-	-	-	442.00	2,405	1.063	450.37	4,047	1.823	444.43	3,122	1.388	-	-	-	444.43	3,122	1.388
Subtotal: Recurring Cost	-	-	-	-	-	31.653	-	-	52.321	-	-	41.304	-	-	-	-	-	41.304
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	31.653	-	-	52.321	-	-	41.304	-	-	-	-	-	41.304
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.006	-	-	0.005	-	-	0.012	-	-	-	-	-	0.012
ACCEPTANCE TESTING	-	-	-	-	-	0.016	-	-	0.066	-	-	0.134	-	-	-	-	-	0.134
FIRST ARTICLE TEST	-	-	-	-	-	0.575	-	-	0.251	-	-	0.257	-	-	-	-	-	0.257
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.597	-	-	0.322	-	-	0.403	-	-	-	-	-	0.403
Gross/Weapon System Cost	-	-	-	-	-	32.250	-	-	52.643	-	-	41.707	-	-	-	-	-	41.707
Remarks:																		
Prices are provided by the Single Manager for Conventional Ammunition (SMCA), Department of the Army. Prices shown represent the SMCA efforts to obtain hardware, containers, pallets, straps, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack the Air Force order. Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).																		

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<b>Exhibit P-5, Cost Analysis: PB 2017 Air Force</b>		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 12	<b>P-1 Line Item Number / Title:</b> 352010 / Cartridges	<b>Item Number / Title [DODIC]:</b> - / (B116) 30MM PGU-15/B, TP
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
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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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Air Force								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 12				<b>P-1 Line Item Number / Title:</b> 352010 / Cartridges				<b>Item Number / Title [DODIC]:</b> - / (B116) 30MM PGU-15/B, TP				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD,ASSEMBLE,PACK		2015	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND MESA, AZ	MIPR	ACC-ROCK ISLAND	Mar 2015	Mar 2016	1,336,035	22.00	Y		
LOAD,ASSEMBLE,PACK		2016	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND MESA, AZ	MIPR	ACC-ROCK ISLAND	Mar 2016	Mar 2017	2,248,750	21.58	Y		
LOAD,ASSEMBLE,PACK		2017	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND MESA, AZ	MIPR	ACC-ROCK ISLAND	Mar 2017	Apr 2018	1,734,900	22.10	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12						P-1 Line Item Number / Title: 352010 / Cartridges						Aggregated Items Title: (MG11) CTG IMPULSE BBU-36/B								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(MG11) CTG IMPULSE BBU-36/B	A		-	-	-	-	-	-	3.92	873,566	3.427	3.97	1,260,653	5.000	-	-	-	3.97	1,260,653	5.000
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	3.427	-	-	5.000	-	-	-	-	-	5.000
Total			-	-	-	-	-	-	-	-	3.427	-	-	5.000	-	-	-	-	-	5.000

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12							P-1 Line Item Number / Title: 352010 / Cartridges								Aggregated Items Title: (MG62) BBU-35/B IMPULSE CARTRIDGE					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(MG62) BBU-35/B IMPULSE CARTRIDGE	A		-	-	-	-	-	-	2.50	2,000,000	5.000	2.55	2,311,765	5.895	-	-	-	2.55	2,311,765	5.895
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	5.000	-	-	5.895	-	-	-	-	-	5.895
Total			-	-	-	-	-	-	-	-	5.000	-	-	5.895	-	-	-	-	-	5.895

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



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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12							P-1 Line Item Number / Title: 352010 / Cartridges								Aggregated Items Title: (SS-27) BBU-48/B IMPULSE CARTRIDGE					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(SS-27) BBU-48/ B IMPULSE CARTRIDGE	A		-	-	-	-	-	-	8.90	505,879	4.500	8.99	444,939	4.000	-	-	-	8.99	444,939	4.000
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	4.500	-	-	4.000	-	-	-	-	-	4.000
Total			-	-	-	-	-	-	-	-	4.500	-	-	4.000	-	-	-	-	-	4.000

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force																Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12								P-1 Line Item Number / Title: 352010 / Cartridges								Aggregated Items Title: CARTRIDGES (ITEMS LESS THAN \$5 MILLION)					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
AMMUNITION CARTRIDGES																					
(A014) CTG, 12 GA SHOTGUN, 7-1//2 PLASTIC	A		-	-	-	0.28	35,714	0.010	-	-	-	-	-	-	-	-	-	-	-	-	
(A017) CTG, 12 GA BUCKSHOT	A		-	-	-	0.31	32,258	0.010	0.31	32,258	0.010	0.30	33,333	0.010	-	-	-	0.30	33,333	0.010	
(A062) CTG, 5.56MM BALL M855 LINKED	A		-	-	-	0.30	2,500,000	0.750	-	-	-	-	-	-	-	-	-	-	-	-	
(A080) CTG, 5.56MM BLANK M200	A		-	-	-	-	-	-	-	-	-	0.15	3,666,666	0.550	-	-	-	0.15	3,666,666	0.550	
(A091) CTG, .22 CAL LONG RIFLE	A		-	-	-	-	-	-	0.17	117,647	0.020	0.16	1,718,750	0.275	-	-	-	0.16	1,718,750	0.275	
(A131) CTG, 7.62MM BALL 4-1 LINKED	A		-	-	-	0.58	3,239,686	1.879	0.58	1,724,138	1.000	0.56	1,428,571	0.800	-	-	-	0.56	1,428,571	0.800	
(A164) CTG, 7.62MM LINKED	A		-	-	-	0.53	3,545,317	1.879	0.54	3,703,704	2.000	0.52	1,923,076	1.000	-	-	-	0.52	1,923,076	1.000	
(A246) CTG, .30 CAL BALL BULK	A		-	-	-	0.24	104,167	0.025	-	-	-	-	-	-	-	-	-	-	-	-	
(A257) CTG, 7.62MM 9-1 DIM TRACER	A		-	-	-	-	-	-	0.53	471,698	0.250	0.53	471,698	0.250	-	-	-	0.53	471,698	0.250	
(A363) 9MM BALL NATO XM882 PISTOL	A		-	-	-	0.19	10,526,316	2.000	0.20	10,000,000	2.000	0.20	5,000,000	1.000	-	-	-	0.20	5,000,000	1.000	
(A404) CTG, .38 CAL SP BALL WADCUTTER	A		-	-	-	0.86	11,627	0.010	-	-	-	-	-	-	-	-	-	-	-	-	
(A475) CTG, CAL .45 BALL M1911	A		-	-	-	-	-	-	-	-	-	0.65	538,461	0.350	-	-	-	0.65	538,461	0.350	
(A482) CTG CAL .45 BALL WADCUTTER	A		-	-	-	0.51	392,157	0.200	0.52	480,769	0.250	0.52	480,769	0.250	-	-	-	0.52	480,769	0.250	
(A483) CTG CAL .45 BALL M1911 MTCHGRD	A		-	-	-	0.34	735,294	0.250	0.34	735,294	0.250	0.38	197,368	0.075	-	-	-	0.38	197,368	0.075	
(A552) CTG, .50 CAL BALL SINGLE ROUND, M33	A		-	-	-	2.26	88,496	0.200	2.05	365,854	0.750	2.05	268,292	0.550	-	-	-	2.05	268,292	0.550	
(A555) CTG, CAL .50 BALL M2 LINKED	A		-	-	-	2.65	1,132,075	3.000	2.35	1,489,362	3.500	2.10	1,666,666	3.500	-	-	-	2.10	1,666,666	3.500	
(A557) CTG, CAL .50 BALL/TRACER/ LINKED M2/M9	A		-	-	-	2.11	947,867	2.000	2.04	1,225,490	2.500	2.19	1,141,552	2.500	-	-	-	2.19	1,141,552	2.500	
(A606) CTG, CAL.50 API MK211 MOD 0	A		-	-	-	-	-	-	10.88	91,912	1.000	10.88	68,933	0.750	-	-	-	10.88	68,933	0.750	

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force																Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12								P-1 Line Item Number / Title: 352010 / Cartridges								Aggregated Items Title: CARTRIDGES (ITEMS LESS THAN \$5 MILLION)					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
(AB48) .50 CAL SINGLE DUMMY CART	A		-	-	-	0.35	114,285	0.040	-	-	-	-	-	-	-	-	-	-	-	-	
(AB72) CTG, 7.62MM SINGLE ROUND BLANK (was A112)	A		-	-	-	0.36	208,333	0.075	-	-	-	0.34	294,117	0.100	-	-	-	0.34	294,117	0.100	
(B519) CARTRIDGE, 40MM PRACTICE M781	A		-	-	-	4.88	409,836	2.000	-	-	-	-	-	-	-	-	-	-	-	-	
(B535) 40MM SWS M583	A		-	-	-	44.54	22,451	1.000	-	-	-	-	-	-	-	-	-	-	-	-	
(B542) 40 MIL CARTRIDGE HEDP	A		-	-	-	-	-	-	45.16	6,645	0.300	45.66	21,901	1.000	-	-	-	45.66	21,901	1.000	
(B576) CTG, 40MM PRACTICE, LINKED, HIGH VELOCITY	A		-	-	-	18.45	108,401	2.000	19.80	101,010	2.000	19.80	101,010	2.000	-	-	-	19.80	101,010	2.000	
AIR FORCE SHOOTING TEAM	A		-	-	-	-	-	0.175	-	-	-	-	-	0.140	-	-	-	-	-	0.140	
(BA21) 40MM PRACTICE, DAY/ NIGHT LINKED	A		-	-	-	-	-	-	-	-	-	32.54	10,387	0.338	-	-	-	32.54	10,387	0.338	
(LA51) SIMULATOR, SMALL ARMS FIRE	A		-	-	-	-	-	-	-	-	0.070	-	-	0.100	-	-	-	-	-	0.100	
(LA52) SIMULATOR, SMALL ARMS FIRE	A		-	-	-	-	-	-	-	-	0.070	-	-	0.100	-	-	-	-	-	0.100	
Subtotal: AMMUNITION CARTRIDGES			-	-	-	-	-	28.522	-	-	28.158	-	-	28.488	-	-	-	-	-	28.488	
IMPULSE CARTRIDGES																					
(3W37) CHAFF, RR-188	A		-	-	-	-	-	-	3.33	600,600	2.000	3.67	1,008,174	3.700	-	-	-	3.67	1,008,174	3.700	
(JN31) CU-168 SQUIB	A		-	-	-	600.23	883	0.530	600.24	3,332	2.000	554.52	3,606	2.000	-	-	-	554.63	3,606	2.000	
(WA83) CCU-136	A		-	-	-	-	-	-	-	-	-	3.68	2,717	0.010	-	-	-	3.68	2,717	0.010	
(WB24) CCU-145	A		-	-	-	-	-	-	-	-	-	5.31	37,664	0.200	-	-	-	5.31	37,664	0.200	
(M943) MK107 IMPULSE CARTRIDGE	A		-	-	-	116.90	13,045	1.525	342.67	4,377	1.500	346.45	4,329	1.500	-	-	-	346.50	4,329	1.500	
(MF60) CTG 25MM TP PGU-23/U	A		-	-	-	-	-	-	-	-	-	8.63	28,968	0.250	-	-	-	8.63	28,968	0.250	
(MT40) BBU-46 SQUIB, ELECTRIC	A		-	-	-	-	-	-	79.06	2,529	0.200	-	-	-	-	-	-	-	-	-	
(NY02) CHAFF, RR-196(T-1)AL	A		-	-	-	39.50	44,303	1.750	-	-	-	40.37	74,313	3.000	-	-	-	40.37	74,313	3.000	

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

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

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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs							<b>P-1 Line Item Number / Title:</b> 353010 / Practice Bombs					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	30.098	89.759	97.106	-	97.106	28.225	29.526	29.304	29.826	-	333.844
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	30.098	89.759	97.106	-	97.106	28.225	29.526	29.304	29.826	-	333.844
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>30.098</b>	<b>89.759</b>	<b>97.106</b>	-	<b>97.106</b>	<b>28.225</b>	<b>29.526</b>	<b>29.304</b>	<b>29.826</b>	-	<b>333.844</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**  
 The 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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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs					<b>P-1 Line Item Number / Title:</b> 353010 / Practice Bombs				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	(ED12) BDU-56A/B, 2000LB PRAC BOMB	P-5a	A	- / -	- / 1.750	- / 1.750	- / 2.000	- / -	- / 2.000
P-5	(ED96) BDU-50 2000LB CDI PRAC BOMB	P-5a	A	- / -	- / 28.348	- / 88.009	- / 95.106	- / -	- / 95.106
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 0.000</b>	<b>- / 30.098</b>	<b>- / 89.759</b>	<b>- / 97.106</b>	<b>- / -</b>	<b>- / 97.106</b>
<p>*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									
<p><b>Justification:</b> FY2017 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.</p> <p>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.</p>									



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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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:								
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		1.750		1.750		2.000		-		2.000				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		1.750		1.750		2.000		-		2.000				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		1.750		1.750		2.000		-		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 Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) <sup>(†)</sup>	-	-	-	7,908.00	154	1.218	8,067.00	172	1.388	7,832.79	239	1.872	-	-	-	7,832.79	239	1.872
LUG SUSP ACFT ORD MK3-0	-	-	-	66.00	311	0.021	59.00	346	0.020	57.28	482	0.028	-	-	-	57.28	482	0.028
PALLET MK79-1	-	-	-	796.00	77	0.061	811.00	85	0.069	788.12	120	0.095	-	-	-	788.12	120	0.095
Subtotal: Recurring Cost	-	-	-	-	-	1.300	-	-	1.477	-	-	1.994	-	-	-	-	-	1.994
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	1.300	-	-	1.477	-	-	1.994	-	-	-	-	-	1.994
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QUALITY ASSURANCE	-	-	-	-	-	0.003	-	-	0.002	-	-	0.006	-	-	-	-	-	0.006
FIRST ARTICLE TEST	-	-	-	-	-	0.176	-	-	-	-	-	-	-	-	-	-	-	-
NAVY ENGINEERING SUPPORT	-	-	-	-	-	0.271	-	-	0.271	-	-	-	-	-	-	-	-	-
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.450	-	-	0.273	-	-	0.006	-	-	-	-	-	0.006
Gross/Weapon System Cost	-	-	-	-	-	1.750	-	-	1.750	-	-	2.000	-	-	-	-	-	2.000
Remarks:																		

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13	<b>P-1 Line Item Number / Title:</b> 353010 / Practice Bombs	<b>Item Number / Title [DODIC]:</b> - / (ED12) BDU-56A/B, 2000LB PRAC BOMB
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<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> <p>(t) indicates the presence of a P-5a</p>		

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Air Force								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13				<b>P-1 Line Item Number / Title:</b> 353010 / Practice Bombs				<b>Item Number / Title [DODIC]:</b> - / (ED12) BDU-56A/B, 2000LB PRAC BOMB				

<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
LOAD, ASSEMBLE, PACK (LAP)		2015	ALLIED MECHANICAL WISCONSIN / APPLETON, WISCONSIN	MIPR	ACC-ROCK ISLAND	Jun 2015	Jun 2016	154	7,908.00	Y		
LOAD, ASSEMBLE, PACK (LAP)		2016	ALLIED MECHANICAL WISCONSIN / APPLETON, WISCONSIN	MIPR	ACC-ROCK ISLAND	Apr 2016	Apr 2017	172	8,067.00	Y		
LOAD, ASSEMBLE, PACK (LAP)		2017	ALLIED MECHANICAL WISCONSIN / APPLETON, WISCONSIN	MIPR	ACC-ROCK ISLAND	Mar 2017	Mar 2018	239	7,832.79	Y		

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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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:								
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		28.348		88.009		95.106		-		95.106				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		28.348		88.009		95.106		-		95.106				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		28.348		88.009		95.106		-		95.106				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) <sup>(†)</sup>	-	-	-	3,098.00	8,795	27.247	3,160.00	26,972	85.232	3,031.15	30,315	91.889	-	-	-	3,031.15	30,315	91.889
LUG SUSP ACFT ORD MS3314	-	-	-	27.00	17,766	0.480	32.00	54,483	1.743	30.71	61,694	1.895	-	-	-	30.71	61,694	1.895
PALLET INSPECTION, MHU-149/E	-	-	-	171.00	1,495	0.256	174.00	4,585	0.798	138.03	1,372	0.189	-	-	-	138.03	1,372	0.189
PALLET MHU-149/E	-	-	-	-	-	-	-	-	-	240.00	3,157	0.758	-	-	-	240.00	3,157	0.758
Subtotal: Recurring Cost	-	-	-	-	-	27.982	-	-	87.773	-	-	94.731	-	-	-	-	-	94.731
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	27.982	-	-	87.773	-	-	94.731	-	-	-	-	-	94.731
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.003	-	-	0.003	-	-	0.004	-	-	-	-	-	0.004
FIRST ARTICLE TEST	-	-	-	-	-	0.130	-	-	-	-	-	0.137	-	-	-	-	-	0.137
NAVY ENGINEERING SUPPORT	-	-	-	-	-	0.233	-	-	0.233	-	-	0.233	-	-	-	-	-	0.233
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.366	-	-	0.236	-	-	0.374	-	-	-	-	-	0.374
Gross/Weapon System Cost	-	-	-	-	-	28.348	-	-	88.009	-	-	95.106	-	-	-	-	-	95.106

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13	<b>P-1 Line Item Number / Title:</b> 353010 / Practice Bombs	<b>Item Number / Title [DODIC]:</b> - / (ED96) BDU-50 2000LB CDI PRAC BOMB
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<p><b>Remarks:</b>          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).</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 and bomb lugs used to produce an inventory-worthy round.</p> <p>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.</p> <p>(t) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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 <small>(Each)</small>	Unit Cost <small>(\$)</small>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2015	ALLIED MECHANICAL WISCONSIN / APPLETON, WISCONSIN	MIPR	ACC-ROCK ISLAND	Jun 2015	Jun 2016	8,795	3,098.00	Y		
LOAD, ASSEMBLE, PACK (LAP)		2016	ALLIED MECHANICAL WISCONSIN / APPLETON, WISCONSIN	MIPR	ACC-ROCK ISLAND	Apr 2016	Apr 2017	26,972	3,160.00	Y		
LOAD, ASSEMBLE, PACK (LAP)		2017	ALLIED MECHANICAL WISCONSIN / APPLETON, WISCONSIN	MIPR	ACC-ROCK ISLAND	Apr 2017	Mar 2018	30,315	3,031.15	Y		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs							<b>P-1 Line Item Number / Title:</b> 353020 / General Purpose Bombs					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A					<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	204.907	653.987	581.561	7.921	589.482	246.622	288.553	394.828	418.243	-	2,796.622
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	204.907	653.987	581.561	7.921	589.482	246.622	288.553	394.828	418.243	-	2,796.622
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>204.907</b>	<b>653.987</b>	<b>581.561</b>	<b>7.921</b>	<b>589.482</b>	<b>246.622</b>	<b>288.553</b>	<b>394.828</b>	<b>418.243</b>	<b>-</b>	<b>2,796.622</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**  
FY2015 funding totals include \$56.293 appropriated for Overseas Contingency Operations.

FY2016 funding totals include \$17.031M 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 Ogden ALC. 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.

-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).

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs		<b>P-1 Line Item Number / Title:</b> 353020 / General Purpose Bombs
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	
<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 (Tritonal). 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. BLU-109 will transition to A2K in FY17 (A2K has been designated the BLU-137/B). It is a penetration 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) weapon systems. This item is procured through the Army Single Manager for Conventional Ammunition (SMCA).</p> <p>-BLU-129/B (ED78)Composite Case Warhead providing very low collateral damage weapon, carbon fiber composite case for high near-field lethality 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. The program will continue acquisition planning for the production restart of BLU-129/B and will develop a work plan transition to Hill (AFLCMC/EBH).</p> <p>-BLU-134/B Improved Lethality Warhead (ILW) (formerly called BLU-111D/B), an area attack employed, near-term, 500 lb warhead for improved anti-personnel anti-material (APAM) target lethality which meets DoD policy on cluster munitions.</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, 0207599F</p>		



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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	<b>P-1 Line Item Number / Title:</b> 353020 / General Purpose Bombs
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	

Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	(EC32) MXU-650 GCG, FIN ASSEMBLY			- / -	- / 10.356	- / 22.235	- / 18.000	- / 2.640	- / 20.640
P-5	(ED09) BLU-117, 2000LB GP BOMB	P-5a	A	- / 0.000	- / 73.215	- / 405.728	- / 376.336	- / -	- / 376.336
P-5	(ED15) BLU-111A/B 500LB GP BOMB	P-5a	A	- / -	- / 13.201	- / 44.873	- / 5.000	- / -	- / 5.000
P-5	(ED49) BLU-109 2000 LB HARD TARGET BOMB	P-5a	A	- / -	- / 57.235	- / 110.000	- / 37.000	- / -	- / 37.000
P-40a	(ED58) MAU-209C/B CCG			- / -	- / 40.000	- / 44.235	- / 40.000	- / 5.281	- / 45.281
P-40a	(ED78) BLU-129/B 500LB BOMB			- / -	- / -	- / 8.125	- / 8.125	- / -	- / 8.125
P-40a	BLU-134/B CDI 500LB			- / -	- / -	- / -	- / 80.000	- / -	- / 80.000
P-40a	GENERAL PURPOSE BOMBS (ITEMS LESS THAN \$5 MILLION)			- / -	- / 10.900	- / 18.791	- / 17.100	- / -	- / 17.100
P-40	<b>Total Gross/Weapon System Cost</b>			<b>- / 0.000</b>	<b>- / 204.907</b>	<b>- / 653.987</b>	<b>- / 581.561</b>	<b>- / 7.921</b>	<b>- / 589.482</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**

FY2017 purchases 500, 1000 and 2000 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, GBU-10/12 Laser Guided Bombs, and BLU-109 Penetrator.

FY2017 OCO: \$5.281M procures GBU-10 and GBU-12 laser guided bomb computer control group components to provide precision laser guided bombs for theater operations.

FY2017 OCO: \$2.64M procures GBU-12 laser guided bomb fin assemblies to provide precision laser guided bombs for theater operations.

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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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2017 Air Force										<b>Date:</b> February 2016	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13					<b>P-1 Line Item Number / Title:</b> 353020 / General Purpose Bombs					<b>Aggregated Items Title:</b> (EC32) MXU-650 GCG, FIN ASSEMBLY	

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
MXU-650 FIN ASSEMBLY - EC32	A		-	-	-	3,983.00	2,600	10.356	3,984.77	5,580	22.235	4,271.48	4,214	18.000	4,271.48	618	2.640	4,271.52	4,832	20.640
Subtotal: Uncategorized			-	-	-	-	-	10.356	-	-	22.235	-	-	18.000	-	-	2.640	-	-	20.640
Total			-	-	-	-	-	10.356	-	-	22.235	-	-	18.000	-	-	2.640	-	-	20.640

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 quanlified vendors, estimated unit cost information from the vendors is not available for planning purposes.

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<b>Exhibit P-5, Cost Analysis: PB 2017 Air Force</b>															<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13							<b>P-1 Line Item Number / Title:</b> 353020 / General Purpose Bombs							<b>Item Number / Title [DODIC]:</b> - / (ED09) BLU-117, 2000LB GP BOMB					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>					
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				0.000		73.215		405.728		376.336		-		376.336					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P-1) <i>(\$ in Millions)</i>				0.000		73.215		405.728		376.336		-		376.336					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>				<b>0.000</b>		<b>73.215</b>		<b>405.728</b>		<b>376.336</b>		<b>-</b>		<b>376.336</b>					
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																			
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>			
	<b>Unit Cost</b> (\$)	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> (\$ M)	
Hardware - Hardware End Item Cost																			
Recurring Cost																			
LOAD, ASSEMBLE, PACK (LAP) <sup>(†)</sup>	-	-	0.000	5,142.57	3,528	18.143	5,324.40	15,746	83.838	5,461.37	14,860	81.156	-	-	-	5,461.37	14,860	81.156	
BOMB BODY 2000LB MK84 MOD 10 IM	-	-	0.000	4,587.00	3,528	16.183	7,213.79	15,746	113.588	6,331.19	14,860	94.081	-	-	-	6,331.19	14,860	94.081	
LUG SUSP ACFT ORD MK3-0	-	-	0.000	47.23	7,056	0.333	59.52	31,492	1.874	57.28	29,720	1.702	-	-	-	57.28	29,720	1.702	
CXM-AF7	-	-	0.000	15.19	2,427,264	36.870	18.44	10,833,248	199.765	18.89	10,223,680	193.125	-	-	-	18.89	10,223,680	193.125	
PALLET MK79-1	-	-	0.000	795.93	1,764	1.404	811.84	7,873	6.392	788.13	7,430	5.856	-	-	-	788.13	7,430	5.856	
<i>Subtotal: Recurring Cost</i>	-	-	0.000	-	-	72.933	-	-	405.457	-	-	375.921	-	-	-	-	-	375.921	
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	0.000	-	-	72.933	-	-	405.457	-	-	375.921	-	-	-	-	-	375.921	
Support - Support End Item Cost																			
PRODUCTION ENGINEERING	-	-	0.000	-	-	0.240	-	-	0.235	-	-	0.372	-	-	-	-	-	0.372	
QUALITY ASSURANCE	-	-	0.000	-	-	0.007	-	-	0.003	-	-	0.004	-	-	-	-	-	0.004	
FIRST ARTICLE TEST	-	-	0.000	-	-	0.035	-	-	0.033	-	-	0.039	-	-	-	-	-	0.039	
<i>Subtotal: Support - Support End Item Cost</i>	-	-	0.000	-	-	0.282	-	-	0.271	-	-	0.415	-	-	-	-	-	0.415	
<b>Gross/Weapon System Cost</b>	-	-	0.000	-	-	73.215	-	-	405.728	-	-	376.336	-	-	-	-	-	376.336	
<b>Remarks:</b>																			

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13	<b>P-1 Line Item Number / Title:</b> 353020 / General Purpose Bombs	<b>Item Number / Title [DODIC]:</b> - / (ED09) BLU-117, 2000LB GP BOMB
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<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>(†) indicates the presence of a P-5a</p>		

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Air Force								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13				<b>P-1 Line Item Number / Title:</b> 353020 / General Purpose Bombs				<b>Item Number / Title [DODIC]:</b> - / (ED09) BLU-117, 2000LB GP BOMB				

<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
LOAD, ASSEMBLE, PACK (LAP)		2015	MCALESTER ARMY AMMUNITION PLAN / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2015	Jun 2016	3,528	5,142.57	Y		
LOAD, ASSEMBLE, PACK (LAP)		2016	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2016	Jul 2017	15,746	5,324.40	Y		
LOAD, ASSEMBLE, PACK (LAP)		2017	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2017	Jul 2018	14,860	5,461.37	Y		

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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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:								
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		13.201		44.873		5.000		-		5.000				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		13.201		44.873		5.000		-		5.000				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		13.201		44.873		5.000		-		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 Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) <sup>(†)</sup>	-	-	-	1,432.49	2,481	3.554	1,565.60	3,091	4.839	1,573.86	815	1.283	-	-	-	1,573.86	815	1.283
BOMB BODY 500 LB MK82 MOD 6 IM	-	-	-	2,100.00	2,481	5.210	2,475.94	3,091	7.653	2,288.30	815	1.865	-	-	-	2,288.30	815	1.865
LUG SUSP ACFT ORD MS3314	-	-	-	27.84	4,962	0.138	31.90	6,182	0.197	30.71	1,631	0.050	-	-	-	30.71	1,631	0.050
CXM-7	-	-	-	12.36	322,530	3.986	14.71	2,126,608	31.282	16.41	106,022	1.740	-	-	-	16.41	106,022	1.740
PALLET INSPECTION, MHU-122E	-	-	-	178.89	422	0.075	181.85	1,546	0.281	193.13	136	0.026	-	-	-	193.13	136	0.026
PALLET MHU-122/E	-	-	-	-	-	-	240.00	1,546	0.371	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	12.964	-	-	44.624	-	-	4.964	-	-	-	-	-	4.964
Subtotal: Hardware Cost	-	-	-	-	-	12.964	-	-	44.624	-	-	4.964	-	-	-	-	-	4.964
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.206	-	-	0.207	-	-	0.022	-	-	-	-	-	0.022
QUALITY ASSURANCE	-	-	-	-	-	0.012	-	-	0.007	-	-	0.001	-	-	-	-	-	0.001
FIRST ARTICLE TEST	-	-	-	-	-	0.019	-	-	0.035	-	-	0.013	-	-	-	-	-	0.013
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.237	-	-	0.249	-	-	0.036	-	-	-	-	-	0.036
Gross/Weapon System Cost	-	-	-	-	-	13.201	-	-	44.873	-	-	5.000	-	-	-	-	-	5.000

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13	<b>P-1 Line Item Number / Title:</b> 353020 / General Purpose Bombs	<b>Item Number / Title [DODIC]:</b> - / (ED15) BLU-111A/B 500LB GP BOMB
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<p><b>Remarks:</b>  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>(t) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13			P-1 Line Item Number / Title: 353020 / General Purpose Bombs					Item Number / Title [DODIC]: - / (ED15) BLU-111A/B 500LB GP 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 <i>(Each)</i>	Unit Cost <i>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2015	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2015	Jun 2017	2,481	1,432.49	Y		
LOAD, ASSEMBLE, PACK (LAP)		2016	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2016	Jun 2017	3,091	1,565.60	Y		
LOAD, ASSEMBLE, PACK (LAP)		2017	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2017	Jun 2018	815	1,573.86	Y		



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Exhibit P-5, Cost Analysis: PB 2017 Air Force											Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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:								
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		57.235		110.000		37.000		-		37.000				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		57.235		110.000		37.000		-		37.000				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		57.235		110.000		37.000		-		37.000				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK <sup>(†)</sup>	-	-	-	8,566.74	1,923	16.474	8,926.07	3,492	31.170	10,598.29	810	8.585	-	-	-	10,598.29	810	8.585
BOMB BODY, 2000LB BLU-109/B	-	-	-	17,000.00	1,923	32.691	17,720.86	3,492	61.881	17,998.88	810	14.579	-	-	-	17,998.88	810	14.579
CONTAINER, CNU-417/E	-	-	-	2,351.31	962	2.262	2,398.18	1,746	4.187	2,435.80	405	0.986	-	-	-	2,435.80	405	0.986
CXM-AF-5	-	-	-	17.31	326,910	5.659	21.28	593,640	12.633	22.88	557,280	12.751	-	-	-	22.88	557,280	12.751
Subtotal: Recurring Cost	-	-	-	-	-	57.086	-	-	109.871	-	-	36.901	-	-	-	-	-	36.901
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	57.086	-	-	109.871	-	-	36.901	-	-	-	-	-	36.901
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.100	-	-	0.118	-	-	0.048	-	-	-	-	-	0.048
QUALITY ASSURANCE	-	-	-	-	-	0.009	-	-	0.011	-	-	0.008	-	-	-	-	-	0.008
FIRST ARTICLE TEST	-	-	-	-	-	0.040	-	-	-	-	-	0.043	-	-	-	-	-	0.043
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.149	-	-	0.129	-	-	0.099	-	-	-	-	-	0.099
Gross/Weapon System Cost	-	-	-	-	-	57.235	-	-	110.000	-	-	37.000	-	-	-	-	-	37.000
Remarks:																		

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13	<b>P-1 Line Item Number / Title:</b> 353020 / General Purpose Bombs	<b>Item Number / Title [DODIC]:</b> - / (ED49) BLU-109 2000 LB HARD TARGET BOMB
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<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>(t) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force									Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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 (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK		2015	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2015	Jul 2016	1,923	8,566.74	Y		
LOAD, ASSEMBLE, PACK		2016	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jul 2016	Jul 2017	3,492	8,926.07	Y		
LOAD, ASSEMBLE, PACK		2017	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2017	Jul 2018	810	10,598.29	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
MAU-209C/B - ED58		A	-	-	-	7,299.27	5,480	40.000	7,378.65	5,995	44.235	5,361.21	7,461	40.000	5,361.21	985	5.281	5,361.24	8,446	45.281
Subtotal: Uncategorized			-	-	-	-	-	40.000	-	-	44.235	-	-	40.000	-	-	5.281	-	-	45.281
Total			-	-	-	-	-	40.000	-	-	44.235	-	-	40.000	-	-	5.281	-	-	45.281

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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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2017 Air Force															<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13								<b>P-1 Line Item Number / Title:</b> 353020 / General Purpose Bombs							<b>Aggregated Items Title:</b> (ED78) BLU-129/B 500LB BOMB				

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BLU-129/B 500LB BOMB	A		-	-	-	-	-	-	116,071.00	70	8.125	116,071.00	70	8.125	-	-	-	116,071.43	70	8.125
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	8.125	-	-	8.125	-	-	-	-	-	8.125
Total			-	-	-	-	-	-	-	-	8.125	-	-	8.125	-	-	-	-	-	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 is a Composite Case Warhead providing a very low collateral damage weapon; carbon fiber composite case for high near-field lethality delivers 3x reduction in collateral damage.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2017 Air Force															<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13								<b>P-1 Line Item Number / Title:</b> 353020 / General Purpose Bombs							<b>Aggregated Items Title:</b> BLU-134/B CDI 500LB				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BLU-134/B, CDI 500 lb	A		-	-	-	-	-	-	-	-	-	8,746.00	9,147	80.000	-	-	-	8,746.00	9,147	80.000
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	-	-	-	80.000	-	-	-	-	-	80.000
Total			-	-	-	-	-	-	-	-	-	-	-	80.000	-	-	-	-	-	80.000

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) (formerly called BLU-111D/B), an area attack employed, near-term, 500lb warhead for improved anti-personnel anti-material (APAM) target lethality which meets DoD policy on cluster munitions.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2017 Air Force																<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13								<b>P-1 Line Item Number / Title:</b> 353020 / General Purpose Bombs								<b>Aggregated Items Title:</b> GENERAL PURPOSE BOMBS (ITEMS LESS THAN \$5 MILLION)			

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
LANYARD ASSY BOMB (EA67)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LANYARD (EA99)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MXU-651 AFG, GBU-10 (EC31)	A		-	-	-	-	-	-	8,379.89	179	1.500	8,500.00	200	1.700	-	-	-	8,500.00	200	1.700
BOMB FUZE PROTECTION ASSEMBLY (ED67)	A		-	-	-	-	-	-	118.88	6,309	0.750	120.19	4,160	0.500	-	-	-	120.19	4,160	0.500
MK84 FIN ASSEMBLY (F607)	A		-	-	-	-	-	-	657.28	1,065	0.700	845.41	1,182	1.000	-	-	-	846.02	1,182	1.000
FIN ASSY BSU-33B/ B (EE10)	A		-	-	-	-	-	-	242.21	20,024	4.850	281.56	10,655	3.000	-	-	-	281.56	10,655	3.000
CUP NOSESUPPORT MK81,82,83,84 (FW26)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLUG, NOSE FOR GP BOMB (G008)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ED41) BLU-110B/B GENERAL PURPOSE BOMB	A		-	-	-	-	-	-	13,000.00	7	0.091	-	-	-	-	-	-	-	-	-
IM	A		-	-	-	-	-	2.000	-	-	2.000	-	-	2.000	-	-	-	-	-	2.000
LWIP	A		-	-	-	-	-	3.000	-	-	3.000	-	-	3.000	-	-	-	-	-	3.000
GP BOMB IM PRODUCTION ENGINEERING	A		-	-	-	-	-	4.900	-	-	4.900	-	-	4.900	-	-	-	-	-	4.900
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	1.000	-	-	1.000	-	-	1.000	-	-	-	-	-	1.000
Subtotal: Uncategorized			-	-	-	-	-	10.900	-	-	18.791	-	-	17.100	-	-	-	-	-	17.100
Total			-	-	-	-	-	10.900	-	-	18.791	-	-	17.100	-	-	-	-	-	17.100

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 11: Rockets							<b>P-1 Line Item Number / Title:</b> 353190 / MASSIVE ORDNANCE PENETRATOR (MOP)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0604327F				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	-	39.690	3.600	-	3.600	-	-	-	-	-	43.290
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	-	39.690	3.600	-	3.600	-	-	-	-	-	43.290
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>-</b>	<b>39.690</b>	<b>3.600</b>	<b>-</b>	<b>3.600</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>43.290</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b></p> <p>The Massive Ordnance Penetrator (MOP) is a Quick Reaction Capability (QRC) for developing and producing a weapon for very hard and deeply buried targets. MOP is a 30,000 lb guided bomb. The guidance uses a Global Positioning System aided Inertial Navigation System (GPS/INS). MOP is integrated on the B-2A.</p> <p>Funding for this exhibit is contained in PE 0208030F, project 353190. FY14 funds (\$16.5M) for modification/upgrade of MOPs procured are in PE 0208030F, project 353020.</p>												

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 11: Rockets					<b>P-1 Line Item Number / Title:</b> 353190 / MASSIVE ORDNANCE PENETRATOR (MOP)				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0604327F			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A						
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	MASSIVE ORDNANCE PENETRATOR (MOP)			- / 0.000	- / -	- / 39.690	- / 3.600 <sup>(1)</sup>	- / -	- / 3.600
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 0.000</b>	<b>- / -</b>	<b>- / 39.690</b>	<b>- / 3.600</b>	<b>- / -</b>	<b>- / 3.600</b>

\*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:**  
FY17 \$3.6M procures MOP weapons and tail kits to maintain operational inventory level.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force																Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11							P-1 Line Item Number / Title: 353190 / MASSIVE ORDNANCE PENETRATOR (MOP)									Aggregated Items Title: MASSIVE ORDNANCE PENETRATOR (MOP)						
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total				
			Unit Cost (\$ 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																						
Massive Ordnance Penetrator (MOP)		A		-	-	0.000	-	-	-	-	-	39.690	-	-	-	3.600	-	-	-	-	-	3.600
Subtotal: Hardware				-	-	0.000	-	-	-	-	-	39.690	-	-	-	3.600	-	-	-	-	-	3.600
Total				-	-	0.000	-	-	-	-	-	39.690	-	-	-	3.600 <sup>(1)</sup>	-	-	-	-	-	3.600

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

**Footnotes:**  
<sup>(1)</sup> In FY 2016, Project 353190 Massive Ordnance Penetrator (MOP) efforts were transferred from Project 353020 General Purpose Bombs to properly align budget activity for PE0208030F.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs							<b>P-1 Line Item Number / Title:</b> 353620 / JOINT DIRECT ATTACK MUNITION					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> 503		<b>Item MDAP/MAIS Code(s):</b> N/A										
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	171,473	8,786	22,359	12,133	18,531	30,664	7,377	11,203	14,294	13,343	-	279,499
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	4,054.269	228.439	533.975	303.988	403.126	707.114	203.951	293.966	371.200	356.581	-	6,749.495
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	4,054.269	228.439	533.975	303.988	403.126	707.114	203.951	293.966	371.200	356.581	-	6,749.495
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>4,054.269</b>	<b>228.439</b>	<b>533.975</b>	<b>303.988</b>	<b>403.126</b>	<b>707.114</b>	<b>203.951</b>	<b>293.966</b>	<b>371.200</b>	<b>356.581</b>	<b>-</b>	<b>6,749.495</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	0.024	0.026	0.024	0.025	0.022	0.023	0.028	0.026	0.026	0.027	-	0.024

**Description:**  
FY2015 funding totals include \$117.039M appropriated for Overseas Contingency Operations (OCO). These funds procure 5,478 JDAM guidance kits.  
FY2016 funding totals include \$184.412M request for Overseas Contingency Operations (OCO). These funds procure 8,510 JDAM guidance kits.

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 and BLU-109) 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.

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

This procurement is critical to replenish stockpiles supporting on-going warfighter missions of which JDAM consists of the majority of combat expenditures. There is a possibility that some funding will be required for contractor facilitization in order to increase production capacity to meet warfighter demand.

Laser sensor production does require a small amount of FY16 funding for contractor facilitization and Life of Type Buy (LOTB). \$2.250M is needed to fund facilitization for increased production capacity and \$0.403M is needed for the LOTB purchase. The LOTB purchase buys a laser sensor component that will soon be obsolete, and this purchase will avoid significant costs and save production schedule time on the laser sensor contract.

Funding for this exhibit contained in PE 0207583F.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs					<b>P-1 Line Item Number / Title:</b> 353620 / JOINT DIRECT ATTACK MUNITION				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> 503		<b>Item MDAP/MAIS Code(s):</b> N/A							
<b>Exhibits Schedule</b>				<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
P-5	JOINT DIRECT ATTACK MUNITION	P-5a, P-21	A	171,473 / 4,054.269	8,786 / 228.439	22,359 / 533.975	12,133 / 303.988	18,531 / 403.126	30,664 / 707.114
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>171,473 / 4,054.269</b>	<b>8,786 / 228.439</b>	<b>22,359 / 533.975</b>	<b>12,133 / 303.988</b>	<b>18,531 / 403.126</b>	<b>30,664 / 707.114</b>
<b>Exhibits Schedule</b>				<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
P-5	JOINT DIRECT ATTACK MUNITION	P-5a, P-21	A	7,377 / 203.951	11,203 / 293.966	14,294 / 371.200	13,343 / 356.581	- / -	279,499 / 6,749.495
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>7,377 / 203.951</b>	<b>11,203 / 293.966</b>	<b>14,294 / 371.200</b>	<b>13,343 / 356.581</b>	<b>- / -</b>	<b>279,499 / 6,749.495</b>
*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.									
<b>Justification:</b> FY17 funding totals include \$303.988 million to procure 12,133 guidance kits and \$403.126 million in Overseas Contingency Operations (OCO) to procure 18,531 guidance kits.									

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Exhibit P-5, Cost Analysis: PB 2017 Air Force								Date: February 2016										
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total					
Procurement Quantity (Units in Each)		171,473	8,786	22,359	12,133	18,531	30,664	7,377	11,203	14,294	13,343	-	279,499					
Gross/Weapon System Cost (\$ in Millions)		4,054.269	228.439	533.975	303.988	403.126	707.114	203.951	293.966	371.200	356.581	-	6,749.495					
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P-1) (\$ in Millions)		4,054.269	228.439	533.975	303.988	403.126	707.114	203.951	293.966	371.200	356.581	-	6,749.495					
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)		4,054.269	228.439	533.975	303.988	403.126	707.114	203.951	293.966	371.200	356.581	-	6,749.495					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (\$ in Millions)		0.024	0.026	0.024	0.025	0.022	0.023	0.028	0.026	0.026	0.027	-	0.024					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ 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	-	-	-	-	-	-	-	-	2.250	-	-	-	-	-	-	-	-	-
Life of Type Buy (LOTB)	-	-	-	-	-	-	-	-	0.403	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	2.653	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway - Joint Direct Attack Munition Cost	-	-	-	-	-	-	-	-	2.653	-	-	-	-	-	-	-	-	-
Hardware - Hardware End Item Cost																		
Recurring Cost																		
JDAM TAIL KIT <sup>(†)</sup>	0.022	171,473	3,687.364	0.024	8,786	211.035	0.022	22,359	482.200	0.022	12,133	262.622	0.022	18,531	403.126	0.022	30,664	665.748
LASER SENSOR	0.015	6,656	98.544	-	-	-	0.012	2,532	29.373	0.014	1,500	21.477	-	-	-	0.014	1,500	21.477
Subtotal: Recurring Cost	-	-	3,785.908	-	-	211.035	-	-	511.573	-	-	284.099	-	-	403.126	-	-	687.225
Subtotal: Hardware - Hardware End Item Cost	-	-	3,785.908	-	-	211.035	-	-	511.573	-	-	284.099	-	-	403.126	-	-	687.225
Logistics - Logistics End Item Cost																		
Recurring Cost																		
TECHNICAL DATA	-	-	0.060	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	0.060	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016						
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:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ 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)
Subtotal: Logistics - Logistics End Item Cost	-	-	0.060	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ancillary Equipment - AncillaryEquipment End Item Cost																		
Recurring Cost																		
TEST EQUIPMENT (CMBRE)	-	-	7.735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AIRBORNE TEST EQUIPMENT	-	-	68.830	-	-	-	0.036	100	3.611	0.040	108	4.331	-	-	-	0.040	108	4.331
Subtotal: Recurring Cost	-	-	76.565	-	-	-	-	-	3.611	-	-	4.331	-	-	-	-	-	4.331
Subtotal: Ancillary Equipment - AncillaryEquipment End Item Cost	-	-	76.565	-	-	-	-	-	3.611	-	-	4.331	-	-	-	-	-	4.331
Support - Support End Item Cost																		
PMA - GOVERNMENT COSTS	-	-	39.827	-	-	1.127	-	-	1.215	-	-	1.238	-	-	-	-	-	1.238
ALTERNATE DISPUTE RESOLUTION	-	-	0.990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SYSTEM TEST & EVALUATION	-	-	0.222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRAINING	-	-	4.533	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PRODUCTION SUSTAINING ENGINEERING	-	-	105.672	-	-	15.227	-	-	12.500	-	-	13.000	-	-	-	-	-	13.000
CONTRACTOR INCENTIVE	-	-	36.782	-	-	1.050	-	-	2.423	-	-	1.320	-	-	-	-	-	1.320
DELIVERY ACCELERATION	-	-	2.753	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEEK EAGLE	-	-	0.957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Support End Item Cost	-	-	191.736	-	-	17.404	-	-	16.138	-	-	15.558	-	-	-	-	-	15.558
Gross/Weapon System Cost	0.024	171,473	4,054.269	0.026	8,786	228.439	0.024	22,359	533.975	0.025	12,133	303.988	0.022	18,531	403.126	0.023	30,664	707.114
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			To Complete			Total Cost		
	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																		



**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016					
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:								
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			To Complete			Total Cost		
	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)
Non Recurring Engineering-Facilitization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.250
Life of Type Buy (LOTB)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.403
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.653
Subtotal: Flyaway - Joint Direct Attack Munition Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.653
Hardware - Hardware End Item Cost																		
Recurring Cost																		
JDM TAIL KIT <sup>(†)</sup>	0.022	7,377	162.128	0.022	11,203	251.176	0.023	14,294	326.866	0.023	13,343	311.217	-	-	-	0.022	279,499	6,097.734
LASER SENSOR	0.015	1,500	21.850	0.015	1,500	21.762	0.015	1,500	22.314	0.015	1,500	22.760	-	-	-	0.014	16,688	238.080
Subtotal: Recurring Cost	-	-	183.978	-	-	272.938	-	-	349.180	-	-	333.977	-	-	-	-	-	6,335.814
Subtotal: Hardware - Hardware End Item Cost	-	-	183.978	-	-	272.938	-	-	349.180	-	-	333.977	-	-	-	-	-	6,335.814
Logistics - Logistics End Item Cost																		
Recurring Cost																		
TECHNICAL DATA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.060
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.060
Subtotal: Logistics - Logistics End Item Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.060
Ancillary Equipment - AncillaryEquipment End Item Cost																		
Recurring Cost																		
TEST EQUIPMENT (CMBRE)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.735
AIRBORNE TEST EQUIPMENT	0.039	112	4.395	0.040	112	4.478	0.040	114	4.563	0.041	114	4.700	-	-	-	0.144	660	94.908
Subtotal: Recurring Cost	-	-	4.395	-	-	4.478	-	-	4.563	-	-	4.700	-	-	-	-	-	102.643
Subtotal: Ancillary Equipment - AncillaryEquipment End Item Cost	-	-	4.395	-	-	4.478	-	-	4.563	-	-	4.700	-	-	-	-	-	102.643
Support - Support End Item Cost																		
PMA - GOVERNMENT COSTS	-	-	1.263	-	-	1.288	-	-	1.314	-	-	1.340	-	-	-	-	-	48.612
ALTERNATE DISPUTE RESOLUTION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.990
SYSTEM TEST & EVALUATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.222

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016					
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:								
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			To Complete			Total Cost		
	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)
TRAINING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.533
PRODUCTION SUSTAINING ENGINEERING	-	-	13.500	-	-	14.000	-	-	14.500	-	-	15.000	-	-	-	-	-	203.399
CONTRACTOR INCENTIVE	-	-	0.815	-	-	1.262	-	-	1.643	-	-	1.564	-	-	-	-	-	46.859
DELIVERY ACCELERATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.753
SEEK EAGLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.957
Subtotal: Support - Support End Item Cost	-	-	15.578	-	-	16.550	-	-	17.457	-	-	17.904	-	-	-	-	-	308.325
Gross/Weapon System Cost	0.028	7,377	203.951	0.026	11,203	293.966	0.026	14,294	371.200	0.027	13,343	356.581	-	-	-	0.024	279,499	6,749.495

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Air Force								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13				<b>P-1 Line Item Number / Title:</b> 353620 / JOINT DIRECT ATTACK MUNITION				<b>Item Number / Title [DODIC]:</b> - / JOINT DIRECT ATTACK MUNITION				

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
JDAM TAIL KIT <sup>(†)</sup>		2014	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Oct 2014	Jul 2015	8,140	0.022	Y		Oct 2013
JDAM TAIL KIT <sup>(†)</sup>		2015	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Nov 2015	Jul 2016	8,786	0.024	Y		Oct 2013
JDAM TAIL KIT <sup>(†)</sup>		2016	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Feb 2016	Jul 2017	22,359	0.022	Y		Oct 2013
JDAM TAIL KIT <sup>(†)</sup>		2017	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Feb 2017	Jul 2018	12,133	0.022	Y		Oct 2013
JDAM TAIL KIT <sup>(†)</sup>	✓	2017	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Feb 2017	Jul 2018	18,531	0.022	Y		Oct 2013
JDAM TAIL KIT <sup>(†)</sup>		2018	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Feb 2018	Jul 2019	7,377	0.022	Y		Oct 2013
JDAM TAIL KIT <sup>(†)</sup>		2019	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Feb 2019	Jul 2020	11,203	0.022	Y		Jul 2018
JDAM TAIL KIT <sup>(†)</sup>		2020	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Feb 2020	Jul 2021	14,294	0.023	Y		Jul 2018
JDAM TAIL KIT <sup>(†)</sup>		2021	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Feb 2021	Jul 2022	13,343	0.023	Y		Jul 2018

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

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Exhibit P-21, Production Schedule: PB 2017 Air Force																							Date: February 2016													
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 2015										Fiscal Year 2016														B A L A N C E					
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 4	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 163333																																				
	1	2014	AF		8.140	-	8.140	A -	-	-	-	-	-	-	-	-	.678	.678	.678	.678	.678	.678	.678	.678	.678	.678	.678	.682					-			
	1	2014	NAVY (‡)		1.062	-	1.062	A -	-	-	-	-	-	-	-	-	.089	.089	.089	.089	.089	.089	.089	.089	.089	.089	.089	.083					-			
	1	2014	FMS (‡)		6.858	-	6.858	A -	-	-	-	-	-	-	-	-	.572	.572	.572	.572	.572	.572	.572	.572	.572	.572	.572	.566					-			
	1	2014	Total		16.060	-	16.060	-	-	-	-	-	-	-	-	-	1.339	1.339	1.339	1.339	1.339	1.339	1.339	1.339	1.339	1.339	1.331					-				
	1	2015	AF		8.786	-	8.786											A -	-	-	-	-	-	-	-	-	-	-	-	-	.732	.732	.732	6.590		
	1	2015	NAVY (‡)		.951	-	.951											A -	-	-	-	-	-	-	-	-	-	-	-	-	.079	.079	.079	.714		
	1	2015	FMS (‡)		2.192	-	2.192											A -	-	-	-	-	-	-	-	-	-	-	-	-	.183	.183	.183	1.643		
	1	2015	Total		11.929	-	11.929											-	-	-	-	-	-	-	-	-	-	-	-	-	.994	.994	.994	8.947		
	1	2016	AF		22.359	-	22.359															A -	-	-	-	-	-	-	-	-	-	-	-	-	-	22.359
	1	2016	NAVY (‡)		1.884	-	1.884															A -	-	-	-	-	-	-	-	-	-	-	-	-	-	1.884
	1	2016	FMS (‡)		5.178	-	5.178															A -	-	-	-	-	-	-	-	-	-	-	-	-	-	5.178
	1	2016	Total		29.421	-	29.421															-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.421
	1	2017	AF		12.133	-	12.133																									12.133				
	1	2017	NAVY (‡)		3.289	-	3.289																									3.289				
	1	2017	FMS (‡)		7.000	-	7.000																									7.000				
	1	2017	Total Base		22.422	-	22.422																									22.422				
✓	1	2017	AF		18.531	-	18.531																									18.531				
	1	2018	AF		7.377	-	7.377																									7.377				
	1	2018	NAVY (‡)		2.404	-	2.404																									2.404				
	1	2018	FMS (‡)		7.000	-	7.000																									7.000				
	1	2018	Total		16.781	-	16.781																									16.781				
	1	2019	AF		11.203	-	11.203																									11.203				
	1	2019	NAVY (‡)		2.300	-	2.300																									2.300				
	1	2019	FMS (‡)		7.000	-	7.000																									7.000				
	1	2019	Total		20.503	-	20.503																									20.503				
	1	2020	AF		14.294	-	14.294																									14.294				
	1	2020	NAVY (‡)		2.200	-	2.200																									2.200				
	1	2020	FMS (‡)		7.000	-	7.000																									7.000				
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2017 Air Force																		Date: February 2016																	
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 (Units in Thousands)							Fiscal Year 2015											Fiscal Year 2016														B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015											Calendar Year 2016																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
	1	2020	Total	23.494	-	23.494																													23.494
	1	2021	AF	13.343	-	13.343																													13.343
	1	2021	NAVY (‡)	2.100	-	2.100																													2.100
	1	2021	FMS (‡)	7.000	-	7.000																													7.000
	1	2021	Total	22.443	-	22.443																													22.443
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:															
3011F / 01 / 13										353620 / JOINT DIRECT ATTACK MUNITION										- / JOINT DIRECT ATTACK MUNITION															
Cost Elements <i>(Units in Thousands)</i>							Fiscal Year 2017										Fiscal Year 2018														B A L A N C E				
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017										Calendar Year 2018																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 163333																																			
	1	2014	AF	8.140	8.140	-																										-			
	1	2014	NAVY <sup>(‡)</sup>	1.062	1.062	-																										-			
	1	2014	FMS <sup>(‡)</sup>	6.858	6.858	-																										-			
	1	2014	Total	16.060	16.060	-																										-			
	1	2015	AF	8.786	2.196	6.590	.732	.732	.732	.732	.732	.732	.732	.732	.734																		-		
	1	2015	NAVY <sup>(‡)</sup>	.951	.237	.714	.079	.079	.079	.079	.079	.079	.079	.082	-																				
	1	2015	FMS <sup>(‡)</sup>	2.192	.549	1.643	.183	.183	.183	.183	.183	.183	.183	.179	-																				
	1	2015	Total	11.929	2.982	8.947	.994	.994	.994	.994	.994	.994	.994	.995	-																				
	1	2016	AF	22.359	-	22.359	-	-	-	-	-	-	-	-	-	1.863	1.863	1.863	1.863	1.863	1.863	1.863	1.863	1.863	1.863	1.866								-	
	1	2016	NAVY <sup>(‡)</sup>	1.884	-	1.884	-	-	-	-	-	-	-	-	-	.157	.157	.157	.157	.157	.157	.157	.157	.157	.157	.157								-	
	1	2016	FMS <sup>(‡)</sup>	5.178	-	5.178	-	-	-	-	-	-	-	-	-	.432	.432	.432	.432	.432	.432	.432	.432	.432	.432	.426								-	
	1	2016	Total	29.421	-	29.421	-	-	-	-	-	-	-	-	-	2.452	2.452	2.452	2.452	2.452	2.452	2.452	2.452	2.452	2.452	2.449								-	
	1	2017	AF	12.133	-	12.133						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.011	1.011	1.011	9.100				
	1	2017	NAVY <sup>(‡)</sup>	3.289	-	3.289						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.274	.274	.274	2.467				
	1	2017	FMS <sup>(‡)</sup>	7.000	-	7.000						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.583	.583	.583	5.251				
	1	2017	Total Base	22.422	-	22.422						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.868	1.868	1.868	16.818				
✓	1	2017	AF	18.531	-	18.531						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.544	1.544	1.544	13.899				
	1	2018	AF	7.377	-	7.377																A	-	-	-	-	-	-	-	-	-	-	-	-	7.377
	1	2018	NAVY <sup>(‡)</sup>	2.404	-	2.404																A	-	-	-	-	-	-	-	-	-	-	-	-	2.404
	1	2018	FMS <sup>(‡)</sup>	7.000	-	7.000																A	-	-	-	-	-	-	-	-	-	-	-	-	7.000
	1	2018	Total	16.781	-	16.781																-	-	-	-	-	-	-	-	-	-	-	-	-	16.781
	1	2019	AF	11.203	-	11.203																										11.203			
	1	2019	NAVY <sup>(‡)</sup>	2.300	-	2.300																										2.300			
	1	2019	FMS <sup>(‡)</sup>	7.000	-	7.000																										7.000			
	1	2019	Total	20.503	-	20.503																										20.503			
	1	2020	AF	14.294	-	14.294																										14.294			
	1	2020	NAVY <sup>(‡)</sup>	2.200	-	2.200																										2.200			
	1	2020	FMS <sup>(‡)</sup>	7.000	-	7.000																										7.000			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2017 Air Force																		Date: February 2016																	
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 (Units in Thousands)							Fiscal Year 2017											Fiscal Year 2018														B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017											Calendar Year 2018																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
	1	2020	Total	23.494	-	23.494																													23.494
	1	2021	AF	13.343	-	13.343																													13.343
	1	2021	NAVY (‡)	2.100	-	2.100																													2.100
	1	2021	FMS (‡)	7.000	-	7.000																													7.000
	1	2021	Total	22.443	-	22.443																													22.443
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																					
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 2019										Fiscal Year 2020										B A L A N C E														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 8	BAL D U E A S O F 1 O C T	Calendar Year 2019										Calendar Year 2020																								
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: 163333																																									
	1	2014	AF		8.140	8.140	-																					-													
	1	2014	NAVY (+)		1.062	1.062	-																					-													
	1	2014	FMS (+)		6.858	6.858	-																					-													
	1	2014	Total		16.060	16.060	-																					-													
	1	2015	AF		8.786	8.786	-																					-													
	1	2015	NAVY (+)		.951	.951	-																					-													
	1	2015	FMS (+)		2.192	2.192	-																					-													
	1	2015	Total		11.929	11.929	-																					-													
	1	2016	AF		22.359	22.359	-																					-													
	1	2016	NAVY (+)		1.884	1.884	-																					-													
	1	2016	FMS (+)		5.178	5.178	-																					-													
	1	2016	Total		29.421	29.421	-																					-													
	1	2017	AF		12.133	3.033	9.100	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.012											-															
	1	2017	NAVY (+)		3.289	.822	2.467	.274	.274	.274	.274	.274	.274	.274	.275											-															
	1	2017	FMS (+)		7.000	1.749	5.251	.583	.583	.583	.583	.583	.583	.583	.587											-															
	1	2017	Total Base		22.422	5.604	16.818	1.868	1.868	1.868	1.868	1.868	1.868	1.868	1.874											-															
✓	1	2017	AF		18.531	4.632	13.899	1.544	1.544	1.544	1.544	1.544	1.544	1.544												-															
	1	2018	AF		7.377	-	7.377	-	-	-	-	-	-	-	-	.614	.614	.614	.614	.614	.614	.614	.614	.614	.614	.618	.619			-											
	1	2018	NAVY (+)		2.404	-	2.404	-	-	-	-	-	-	-	-	.200	.200	.200	.200	.200	.200	.200	.200	.200	.200	.200	.204			-											
	1	2018	FMS (+)		7.000	-	7.000	-	-	-	-	-	-	-	-	.583	.583	.583	.583	.583	.583	.583	.583	.583	.583	.583	.587			-											
	1	2018	Total		16.781	-	16.781	-	-	-	-	-	-	-	-	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.401	1.410			-											
	1	2019	AF		11.203	-	11.203						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.933	.933	.933	8.404										
	1	2019	NAVY (+)		2.300	-	2.300						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.192	.192	.192	1.724										
	1	2019	FMS (+)		7.000	-	7.000						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.583	.583	.583	5.251										
	1	2019	Total		20.503	-	20.503						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.708	1.708	1.708	15.379										
	1	2020	AF		14.294	-	14.294																					-	-	-	-	-	-	-	-	-	-	14.294			
	1	2020	NAVY (+)		2.200	-	2.200																							A -	-	-	-	-	-	-	-	-	-	-	2.200
	1	2020	FMS (+)		7.000	-	7.000																							A -	-	-	-	-	-	-	-	-	-	-	7.000
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										



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Exhibit P-21, Production Schedule: PB 2017 Air Force																			Date: February 2016														
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 (Units in Thousands)							Fiscal Year 2019													Fiscal Year 2020													BALANCE
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
	1	2020	Total	23.494	-	23.494														- - - - - - -													23.494
	1	2021	AF	13.343	-	13.343																											13.343
	1	2021	NAVY (‡)	2.100	-	2.100																											2.100
	1	2021	FMS (‡)	7.000	-	7.000																											7.000
	1	2021	Total	22.443	-	22.443																											22.443
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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Exhibit P-21, Production Schedule: PB 2017 Air Force

Date: February 2016

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

Cost Elements (Units in Thousands)							Fiscal Year 2021														Fiscal Year 2022														BALANCE
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT				Calendar Year 2021											Calendar Year 2022														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
JDAM TAIL KIT																																			
Prior Years Deliveries: 163333																																			
	1	2014	AF	8.140	8.140	-																											-		
	1	2014	NAVY (+)	1.062	1.062	-																											-		
	1	2014	FMS (+)	6.858	6.858	-																											-		
	1	2014	Total	16.060	16.060	-																											-		
	1	2015	AF	8.786	8.786	-																											-		
	1	2015	NAVY (+)	.951	.951	-																											-		
	1	2015	FMS (+)	2.192	2.192	-																											-		
	1	2015	Total	11.929	11.929	-																											-		
	1	2016	AF	22.359	22.359	-																											-		
	1	2016	NAVY (+)	1.884	1.884	-																											-		
	1	2016	FMS (+)	5.178	5.178	-																											-		
	1	2016	Total	29.421	29.421	-																											-		
	1	2017	AF	12.133	12.133	-																											-		
	1	2017	NAVY (+)	3.289	3.289	-																											-		
	1	2017	FMS (+)	7.000	7.000	-																											-		
	1	2017	Total Base	22.422	22.422	-																											-		
✓	1	2017	AF	18.531	18.531	-																											-		
	1	2018	AF	7.377	7.377	-																											-		
	1	2018	NAVY (+)	2.404	2.404	-																											-		
	1	2018	FMS (+)	7.000	7.000	-																											-		
	1	2018	Total	16.781	16.781	-	-																												
	1	2019	AF	11.203	2.799	8.404	.933	.933	.933	.933	.933	.933	.933	.940													-								
	1	2019	NAVY (+)	2.300	.576	1.724	.192	.192	.192	.192	.192	.192	.192	.188													-								
	1	2019	FMS (+)	7.000	1.749	5.251	.583	.583	.583	.583	.583	.583	.583	.587													-								
	1	2019	Total	20.503	5.124	15.379	1.708	1.708	1.708	1.708	1.708	1.708	1.708	1.715													-								
	1	2020	AF	14.294	-	14.294	-	-	-	-	-	-	-	-	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.191	1.193					-				
	1	2020	NAVY (+)	2.200	-	2.200	-	-	-	-	-	-	-	-	.183	.183	.183	.183	.183	.183	.183	.183	.183	.183	.183	.187					-				
	1	2020	FMS (+)	7.000	-	7.000	-	-	-	-	-	-	-	-	.583	.583	.583	.583	.583	.583	.583	.583	.583	.583	.583	.587					-				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					

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Exhibit P-21, Production Schedule: PB 2017 Air Force																			Date: February 2016																
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 (Units in Thousands)							Fiscal Year 2021														Fiscal Year 2022														B A L A N C E
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
	1	2020	Total	23.494	-	23.494	-	-	-	-	-	-	-	-	-	1.957	1.957	1.957	1.957	1.957	1.957	1.957	1.957	1.957	1.957	1.957	1.967					-			
	1	2021	AF	13.343	-	13.343					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.112	1.112	1.112	10.007			
	1	2021	NAVY (‡)	2.100	-	2.100					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.175	.175	.175	1.575			
	1	2021	FMS (‡)	7.000	-	7.000					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.583	.583	.583	5.251			
	1	2021	Total	22.443	-	22.443					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.870	1.870	1.870	16.833			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2017 Air Force																			Date: February 2016													
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 2023												Fiscal Year 2024												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 2	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
JDAM TAIL KIT																																
Prior Years Deliveries: 163333																																
	1	2014	AF		8.140	8.140	-																				-					
	1	2014	NAVY (+)		1.062	1.062	-																				-					
	1	2014	FMS (+)		6.858	6.858	-																				-					
	1	2014	Total		16.060	16.060	-																				-					
	1	2015	AF		8.786	8.786	-																				-					
	1	2015	NAVY (+)		.951	.951	-																				-					
	1	2015	FMS (+)		2.192	2.192	-																				-					
	1	2015	Total		11.929	11.929	-																				-					
	1	2016	AF		22.359	22.359	-																				-					
	1	2016	NAVY (+)		1.884	1.884	-																				-					
	1	2016	FMS (+)		5.178	5.178	-																				-					
	1	2016	Total		29.421	29.421	-																				-					
	1	2017	AF		12.133	12.133	-																				-					
	1	2017	NAVY (+)		3.289	3.289	-																				-					
	1	2017	FMS (+)		7.000	7.000	-																				-					
	1	2017	Total Base		22.422	22.422	-																				-					
✓	1	2017	AF		18.531	18.531	-																				-					
	1	2018	AF		7.377	7.377	-																				-					
	1	2018	NAVY (+)		2.404	2.404	-																				-					
	1	2018	FMS (+)		7.000	7.000	-																				-					
	1	2018	Total		16.781	16.781	-																				-					
	1	2019	AF		11.203	11.203	-																				-					
	1	2019	NAVY (+)		2.300	2.300	-																				-					
	1	2019	FMS (+)		7.000	7.000	-																				-					
	1	2019	Total		20.503	20.503	-																				-					
	1	2020	AF		14.294	14.294	-																				-					
	1	2020	NAVY (+)		2.200	2.200	-																				-					
	1	2020	FMS (+)		7.000	7.000	-																				-					
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Air Force																			Date: February 2016															
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 (Units in Thousands)							Fiscal Year 2023										Fiscal Year 2024														BALANCE			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023										Calendar Year 2024																	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
1	2020	Total	23.494	23.494	-																													-
1	2021	AF	13.343	3.336	10.007	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.112	1.111															-					
1	2021	NAVY <sup>(‡)</sup>	2.100	.525	1.575	.175	.175	.175	.175	.175	.175	.175	.175	.175															-					
1	2021	FMS <sup>(‡)</sup>	7.000	1.749	5.251	.583	.583	.583	.583	.583	.583	.583	.583	.587															-					
1	2021	Total	22.443	5.610	16.833	1.870	1.870	1.870	1.870	1.870	1.870	1.870	1.870	1.873	O C T	N O V	D E C	J A N	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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<b>Exhibit P-21, Production Schedule:</b> PB 2017 Air Force				<b>Date:</b> February 2016			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 13			<b>P-1 Line Item Number / Title:</b> 353620 / JOINT DIRECT ATTACK MUNITION			<b>Item Number / Title [DODIC]:</b> - / JOINT DIRECT ATTACK MUNITION	

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	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	-	-	-	-	15	5	17	22

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

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

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

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

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

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	29.989	58.266	38.890	-	38.890	52.936	51.304	47.054	47.893	-	326.332
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	29.989	58.266	38.890	-	38.890	52.936	51.304	47.054	47.893	-	326.332
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>29.989</b>	<b>58.266</b>	<b>38.890</b>	-	<b>38.890</b>	<b>52.936</b>	<b>51.304</b>	<b>47.054</b>	<b>47.893</b>	-	<b>326.332</b>

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

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

## Description:

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.

The FY17 funding request was reduced by \$12.848 million to account for the availability of prior year execution balances.

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

PE associated with this P-1 Line is 0708070F.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items					<b>P-1 Line Item Number / Title:</b> 355100 / CAD/PAD				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> N/A							
<b>Exhibits Schedule</b>				<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
P-40a	CAD/PAD			- / -	- / 29.989	- / 58.266	- / 38.890	- / -	- / 38.890
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / -</b>	<b>- / 29.989</b>	<b>- / 58.266</b>	<b>- / 38.890</b>	<b>- / -</b>	<b>- / 38.890</b>
<p>*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									
<p><b>Justification:</b> FY2017 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.</p>									



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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BOMBER AIRCRAFT	A		-	-	-	-	-	4.834	-	-	8.766	-	-	5.851	-	-	-	-	-	5.851
CARGO AIRCRAFT	A		-	-	-	-	-	2.688	-	-	5.548	-	-	3.703	-	-	-	-	-	3.703
FIGHTER AIRCRAFT	A		-	-	-	-	-	6.200	-	-	11.596	-	-	7.740	-	-	-	-	-	7.740
TRAINING AIRCRAFT	A		-	-	-	-	-	11.866	-	-	26.189	-	-	17.480	-	-	-	-	-	17.480
COMMON EGRESS ITEMS	A		-	-	-	-	-	2.148	-	-	3.088	-	-	2.061	-	-	-	-	-	2.061
COMMON LIFE SUPPORT ITEMS	A		-	-	-	-	-	1.534	-	-	2.941	-	-	1.963	-	-	-	-	-	1.963
COMMON MISC ITEMS	A		-	-	-	-	-	0.719	-	-	0.138	-	-	0.092	-	-	-	-	-	0.092
Subtotal: Uncategorized			-	-	-	-	-	29.989	-	-	58.266	-	-	38.890	-	-	-	-	-	38.890
Total			-	-	-	-	-	29.989	-	-	58.266	-	-	38.890	-	-	-	-	-	38.890

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:** PB 2017 Air Force **Date:** February 2016

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items	<b>P-1 Line Item Number / Title:</b> 355450 / Explosive Ordnance Disposal (EOD)
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	6.925	5.612	5.714	-	5.714	5.862	6.020	6.131	6.241	-	42.505
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	6.925	5.612	5.714	-	5.714	5.862	6.020	6.131	6.241	-	42.505
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>0.000</b>	<b>6.925</b>	<b>5.612</b>	<b>5.714</b>	<b>-</b>	<b>5.714</b>	<b>5.862</b>	<b>6.020</b>	<b>6.131</b>	<b>6.241</b>	<b>-</b>	<b>42.505</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

## Description:

Explosive Ordnance Disposal (EOD) materials support Civil Engineer, EOD, SF MWD, 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 contained in PE 0204424F and PE 0208028F.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items					<b>P-1 Line Item Number / Title:</b> 355450 / Explosive Ordnance Disposal (EOD)				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A						
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Explosive Ordnance Disposal (EOD)			- / 0.000	- / 6.925	- / 5.612	- / 5.714	- / -	- / 5.714
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 0.000</b>	<b>- / 6.925</b>	<b>- / 5.612</b>	<b>- / 5.714</b>	<b>- / -</b>	<b>- / 5.714</b>
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.									

**Justification:**

FY2017 purchases 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-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15								P-1 Line Item Number / Title: 355450 / Explosive Ordnance Disposal (EOD)							Aggregated Items Title: Explosive Ordnance Disposal (EOD)					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(AA62) 12 GAUGE M274 ULTRA CARTRIDGE	A		-	-	-	6.22	965	0.006	-	-	-	6.36	314	0.002	-	-	-	6.37	314	0.002
(AA66) - MEDIUM VELOCITY BLANK	A		-	-	-	1.40	2,857	0.004	-	-	-	-	-	-	-	-	-	-	-	-
(DWDF) - CONTAINER, MAIN CHARGE	A		-	-	-	-	-	-	148.15	27	0.004	-	-	-	-	-	-	-	-	-
(M023) - CHARGE, DEMOLITION C4-M112	A		-	-	-	42.49	61,191	2.600	52.61	51,321	2.700	45.66	58,235	2.659	-	-	-	45.66	58,235	2.659
(M097) INERT, NON-ELECTRIC CAP	A		-	-	-	-	-	-	54.95	91	0.005	-	-	-	-	-	-	-	-	-
(M130) - CAP BLASTING ELECTRIC M6	A		-	-	-	41.95	9,535	0.400	41.80	11,962	0.500	41.40	12,077	0.500	-	-	-	41.40	12,077	0.500
(M131) - CAP, BLASTING NON-ELECTRIC-M7	A		-	-	-	21.43	7,000	0.150	24.68	6,078	0.150	21.54	9,285	0.200	-	-	-	21.54	9,285	0.200
(M420) - CHARGE, DEMO SHAPED M2A4 15 LB COMB B	A		-	-	-	854.70	117	0.100	862.07	412	0.356	-	-	-	-	-	-	-	-	-
(M421) - CHARGE, DEMO SHAPED M3A2 40LB COMB B	A		-	-	-	1,515.15	297	0.450	-	-	-	-	-	-	-	-	-	-	-	-
(M456) - CORD ASBLY DETONATING	A		-	-	-	0.37	405,405	0.150	0.41	243,902	0.100	0.42	238,095	0.100	-	-	-	0.42	238,095	0.100
(M482) - CONTAINER SHAPE CHARGE, MK7 MOD6	A		-	-	-	39.37	127	0.005	-	-	-	-	-	-	-	-	-	-	-	-
(M591) - DYNAMITE MILITARY M1 1LB BLOCK	A		-	-	-	-	-	-	-	-	-	1.10	3,636	0.004	-	-	-	1.10	3,636	0.004
(M980) - DETA SHEET	A		-	-	-	30.26	6,609	0.200	30.57	6,542	0.200	31.28	6,393	0.200	-	-	-	31.28	6,393	0.200
(ML05) CUTTER, HE MK24 MOD 0	A		-	-	-	-	-	-	215.05	186	0.040	-	-	-	-	-	-	-	-	-
(ML47) - B CAP W/30 FT SHOCK TUBE	A		-	-	-	21.65	462	0.010	-	-	-	44.44	337	0.015	-	-	-	44.51	337	0.015
(MM24) DEMO ECT, MK 142, 300GPF	A		-	-	-	18.37	10,887	0.200	-	-	-	18.77	7,991	0.150	-	-	-	18.77	7,991	0.150
(MM30) CHARGE, 20 GRAM MK 140 MOD 0	A		-	-	-	-	-	-	-	-	-	7,000.00	1	0.007	-	-	-	7,000.00	1	0.007

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15							P-1 Line Item Number / Title: 355450 / Explosive Ordnance Disposal (EOD)							Aggregated Items Title: Explosive Ordnance Disposal (EOD)						
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
(MM51) DEMO ECT, MK 143, 600GPF	A		-	-	-	115.94	2,130	0.247	117.20	853	0.100	118.49	843	0.100	-	-	-	118.62	843	0.100
(MM52) DEMO ECT, MK144, 1200GPF	A		-	-	-	69.48	3,598	0.250	75.36	2,906	0.219	71.01	2,112	0.150	-	-	-	71.02	2,112	0.150
(MM53) - DEMO ECT, MK145, 2400GPF	A		-	-	-	56.82	704	0.040	-	-	-	115.01	2,608	0.300	-	-	-	115.03	2,608	0.300
(MM54) - EXPLOSIVE CUTTING TAPE	A		-	-	-	55.19	18,119	1.000	55.80	5,376	0.300	89.68	4,460	0.400	-	-	-	89.69	4,460	0.400
(MN07) - N/E 70FT DELAY SHOCK TUBE	A		-	-	-	18.56	431	0.008	18.78	426	0.008	18.98	2,054	0.039	-	-	-	18.99	2,054	0.039
(MN06) M14 SET UP, N/E CAP WITH TIME FUZE	A		-	-	-	9.13	5,476	0.050	9.29	1,076	0.010	-	-	-	-	-	-	-	-	-
(MN08) - IGNITER TIME BLASTING	A		-	-	-	8.98	55,679	0.500	10.15	49,261	0.500	21.52	9,293	0.200	-	-	-	21.52	9,293	0.200
(MN23) - DEMO ECT, MK152, 900GPF (LHFLSC)	A		-	-	-	-	-	-	-	-	-	-	-	0.338	-	-	-	-	-	0.338
(MN82) - SEMTEX A	A		-	-	-	17.83	1,963	0.035	-	-	-	-	-	-	-	-	-	-	-	-
(MN85) - DYNAMITE, 75% AMMON NITRATE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(MN88) - SHOCK TUBE W/BLASTING CAP 500	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(MN90) - M-13 1,000 FT SHOCK TUBE W/ CAP M23	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(SS01) - CTG, 50 CAL ELEC BLANK MK209 MOD 1	A		-	-	-	500,000.00	1	0.500	400,000.00	1	0.400	300,000.00	1	0.300	-	-	-	300,000.00	1	0.300
(YY34) - SHOCK TUBE	A		-	-	-	0.50	40,000	0.020	0.51	39,216	0.020	0.51	98,039	0.050	-	-	-	0.51	98,039	0.050
RT 4 N/L	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEMOLITION REMOTE FIRING DEVICE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	0.000	-	-	6.925	-	-	5.612	-	-	5.714	-	-	-	-	-	5.714
Total			-	-	0.000	-	-	6.925	-	-	5.612	-	-	5.714	-	-	-	-	-	5.714

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items							<b>P-1 Line Item Number / Title:</b> 355900 / SPARES AND REPAIR PARTS					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.395	0.103	0.740	-	0.740	0.671	0.523	0.533	0.543	-	3.508
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.395	0.103	0.740	-	0.740	0.671	0.523	0.533	0.543	-	3.508
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>0.395</b>	<b>0.103</b>	<b>0.740</b>	<b>-</b>	<b>0.740</b>	<b>0.671</b>	<b>0.523</b>	<b>0.533</b>	<b>0.543</b>	<b>-</b>	<b>3.508</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b></p> <p>This P-1 line funds spares and repair parts for Procurement of Ammunition, Air Force (PAAF) items. Initial spares consist of reparable 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 reparable 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.</p> <p>PE associated with this P-1 Line is 0208030F.</p>												

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items					<b>P-1 Line Item Number / Title:</b> 355900 / SPARES AND REPAIR PARTS				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	SPARES AND REPAIR PARTS			- / 0.000	- / 0.395	- / 0.103	- / 0.740	- / -	- / 0.740
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 0.000</b>	<b>- / 0.395</b>	<b>- / 0.103</b>	<b>- / 0.740</b>	<b>- / -</b>	<b>- / 0.740</b>
<p>*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									
<p><b>Justification:</b> FY17 funds are used for spares and repair parts for Procurement of Ammunition, Air Force (PAAF) items.</p> <p>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.</p>									



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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15						P-1 Line Item Number / Title: 355900 / SPARES AND REPAIR PARTS									Aggregated Items Title: SPARES AND REPAIR PARTS						
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total			
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	
Uncategorized																					
MISC. LOW COST INITIAL SPARES		A		-	-	0.000	-	-	0.395	-	-	0.103	-	-	0.740	-	-	-	-	-	0.740
Subtotal: Uncategorized				-	-	0.000	-	-	0.395	-	-	0.103	-	-	0.740	-	-	-	-	-	0.740
Total				-	-	0.000	-	-	0.395	-	-	0.103	-	-	0.740	-	-	-	-	-	0.740

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:** PB 2017 Air Force **Date:** February 2016

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

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	1.610	1.102	0.573	-	0.573	1.394	1.266	1.290	1.312	-	8.547
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	1.610	1.102	0.573	-	0.573	1.394	1.266	1.290	1.312	-	8.547
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>1.610</b>	<b>1.102</b>	<b>0.573</b>	-	<b>0.573</b>	<b>1.394</b>	<b>1.266</b>	<b>1.290</b>	<b>1.312</b>	-	<b>8.547</b>

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

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

## Description:

This budget line 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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items					<b>P-1 Line Item Number / Title:</b> 355970 / MODIFICATIONS				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	MODIFICATIONS			- / -	- / 1.610	- / 1.102	- / 0.573	- / -	- / 0.573
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / -</b>	<b>- / 1.610</b>	<b>- / 1.102</b>	<b>- / 0.573</b>	<b>- / -</b>	<b>- / 0.573</b>
*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 FY2017 funding request is a low cost mod that reflects estimated costs based on historical funding requirements and projected future requirements.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15							P-1 Line Item Number / Title: 355970 / MODIFICATIONS								Aggregated Items Title: MODIFICATIONS					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Miscellaneous Modifications	A		-	-	-	-	-	1.610	-	-	1.102	-	-	0.573	-	-	-	-	-	0.573
Subtotal: Uncategorized			-	-	-	-	-	1.610	-	-	1.102	-	-	0.573	-	-	-	-	-	0.573
Total			-	-	-	-	-	1.610	-	-	1.102	-	-	0.573	-	-	-	-	-	0.573

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items							<b>P-1 Line Item Number / Title:</b> 355990 / ITEMS LESS THAN \$5 MILLION					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	4.237	3.044	5.156	-	5.156	4.997	4.591	4.675	4.758	-	31.458
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	4.237	3.044	5.156	-	5.156	4.997	4.591	4.675	4.758	-	31.458
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>4.237</b>	<b>3.044</b>	<b>5.156</b>	-	<b>5.156</b>	<b>4.997</b>	<b>4.591</b>	<b>4.675</b>	<b>4.758</b>	-	<b>31.458</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**  
 This 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, 0207599F and 0207040F.

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items					<b>P-1 Line Item Number / Title:</b> 355990 / ITEMS LESS THAN \$5 MILLION				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	ITEMS LESS THAN \$5 MILLION			- / -	- / 4.237	- / 3.044	- / 5.156	- / -	- / 5.156
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			- / -	- / 4.237	- / 3.044	- / 5.156	- / -	- / 5.156
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown. Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.									

**Justification:**

FY2017 purchases 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-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15						P-1 Line Item Number / Title: 355990 / ITEMS LESS THAN \$5 MILLION									Aggregated Items Title: ITEMS LESS THAN \$5 MILLION					
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(G870) FZE HAND GRN PRACTICE	A		-	-	-	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	0.050
(G878) FUZE, GRENADE HAND, PRAC	A		-	-	-	8.98	22,272	0.200	16.12	4,652	0.075	16.18	17,923	0.290	-	-	-	16.18	17,923	0.290
(G881) GRN, HAND PRAC M228	A		-	-	-	60.64	1,649	0.100	55.45	2,705	0.150	47.19	37,084	1.750	-	-	-	47.19	37,084	1.750
(G940) GRENADE, SMOKE, GREEN M18	A		-	-	-	50.27	5,410	0.272	51.73	4,833	0.250	51.70	5,609	0.290	-	-	-	51.70	5,609	0.290
(G945) GRENADE, SMOKE, YELLOW	A		-	-	-	57.05	3,505	0.200	54.74	2,740	0.150	54.62	2,288	0.125	-	-	-	54.63	2,288	0.125
(G950) GRENADE, SMOKE, RED	A		-	-	-	-	-	-	58.37	8,566	0.500	58.45	7,698	0.450	-	-	-	58.46	7,698	0.450
(G955) GRENADE, SMOKE, VIOLET M18	A		-	-	-	48.69	2,053	0.100	57.01	4,385	0.250	57.05	3,943	0.225	-	-	-	57.06	3,943	0.225
(GG04) GRENADE, NON-LETHAL MODEL 9590	A		-	-	-	41.00	11,731	0.481	32.64	766	0.025	32.97	758	0.025	-	-	-	32.98	758	0.025
(GG09) GRENADE, HAND NON-LETHAL	A		-	-	-	-	-	-	-	-	-	-	-	0.670	-	-	-	-	-	0.670
(KM02) PEPPER SPRAY, POCKET	A		-	-	-	-	-	-	-	-	-	-	-	0.050	-	-	-	-	-	0.050
(L594) SIMULATOR, GROUND BURST M115A2	A		-	-	-	23.63	8,463	0.200	22.07	2,266	0.050	22.11	13,568	0.300	-	-	-	22.11	13,568	0.300
(L601) SIMULATOR, HAND GRENADE M116A1	A		-	-	-	23.35	12,847	0.300	19.31	10,357	0.200	18.97	15,814	0.300	-	-	-	18.97	15,814	0.300
(GG36) GRENADE, MK20 FLASH NONLETHAL	A		-	-	-	75.00	20,933	1.570	75.00	8,453	0.634	-	-	-	-	-	-	-	-	-
(LA51) SIMULATOR, SMALL ARMS FIRE	A		-	-	-	8.34	11,990	0.100	8.40	8,333	0.070	-	-	-	-	-	-	-	-	-
(LA52) SIMULATOR, SMALL ARMS FIRE	A		-	-	-	8.38	11,933	0.100	8.44	8,293	0.070	-	-	-	-	-	-	-	-	-
NUCLEAR TRAINERS	A		-	-	-	-	-	0.614	-	-	0.620	-	-	0.631	-	-	-	-	-	0.631
ALE 50	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	4.237	-	-	3.044	-	-	5.156	-	-	-	-	-	5.156
Total			-	-	-	-	-	4.237	-	-	3.044	-	-	5.156	-	-	-	-	-	5.156

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 16: Flares							<b>P-1 Line Item Number / Title:</b> 356010 / FLARES					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									

  

Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	103.296	131.999	134.709	6.531	141.240	162.549	141.921	131.081	115.051	-	927.137
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	103.296	131.999	134.709	6.531	141.240	162.549	141.921	131.081	115.051	-	927.137
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>103.296</b>	<b>131.999</b>	<b>134.709</b>	<b>6.531</b>	<b>141.240</b>	<b>162.549</b>	<b>141.921</b>	<b>131.081</b>	<b>115.051</b>	-	<b>927.137</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

  

**Description:**  
FY2015 funding includes \$19.136M appropriated for Overseas Contingency Operations.

FY2016 funding includes \$11.064M 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. Evaluating switch to MJU-53. 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. Evaluating switch to MJU-53. 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. 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: PB 2017 Air Force		Date: February 2016
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	Item MDAP/MAIS Code(s): 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. Includes FY2017 OCO of \$3.266M</p> <p>-(LA67) MJU-71 IR Flare is a magnesium based thrust 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 thrust 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.</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>-(LA69) MJU-69 Flare is a multi-spectral countermeasure and was developed specifically for the F-35/JSF aircraft to provide protection from advance 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. Includes FY2017 OCO of \$3.266M</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>-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>The FY17 funding request was reduced by \$23.375 Million to account for the availability of prior year execution balances.</p> <p>Funding for this exhibit contained in PEs: 0207224F, 0208030F and 0207599F.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 16: Flares	<b>P-1 Line Item Number / Title:</b> 356010 / FLARES
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	(L410) M206 FLARE	P-5a	A	- / -	- / 25.645	- / 25.853	- / 20.882	- / -	- / 20.882
P-5	(L461) MJU-10 FLARE	P-5a	A	- / -	- / 14.177	- / 10.000	- / 5.000	- / -	- / 5.000
P-5	(L463) MJU-7A/B, IR FLARE	P-5a	A	- / -	- / 7.000	- / 26.171	- / 16.885	- / -	- / 16.885
P-40a	(LA21) MJU-53/B IR CM FLARE			- / -	- / 12.574	- / 21.478	- / 10.452	- / 3.266	- / 13.718
P-40a	(LA36) MJU-62/B IR CM FLARE			- / -	- / 7.000	- / 7.960	- / 7.400	- / -	- / 7.400
P-40a	(LA66) MJU-61 IR CM FLARE			- / -	- / -	- / -	- / 4.000	- / -	- / 4.000
P-40a	(LA61) MJU-66 CM ACFT FLARE			- / -	- / 7.800	- / 12.022	- / 14.094	- / 3.265	- / 17.359
P-40a	(LA67) FLARE, IR, CM (MJU-71/B)			- / -	- / 18.000	- / 18.515	- / 17.466	- / -	- / 17.466
P-40a	(LA68) MJU-68/B IR CM FLARE			- / -	- / 5.000	- / 5.000	- / 14.190	- / -	- / 14.190
P-40a	(LA69) MJU-69/B IR CM FLARE			- / -	- / 5.000	- / 5.000	- / 14.190	- / -	- / 14.190
P-40a	(LY12) ALA-17 FLARE CARTRIDGE			- / -	- / 1.100	- / -	- / 10.150	- / -	- / 10.150
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / -</b>	<b>- / 103.296</b>	<b>- / 131.999</b>	<b>- / 134.709</b>	<b>- / 6.531</b>	<b>- / 141.240</b>

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**

FY2017 purchases 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.

FY2017 OCO: \$3.266M is needed to procure IR flares for the C-17 and C-5 aircraft for self protection in the theater of operations. \$3.265M is needed to procure IR flares for A-10, C-130, HH-53, and HH-60 aircraft for self protection in the theater of operations.

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: PB 2017 Air Force													Date: February 2016								
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:											
Resource Summary				Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
Procurement Quantity ( <i>Units in Each</i> )				-			-			-			-			-					
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				-			25.645			25.853			20.882			-			20.882		
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-			-			-			-			-			-		
Net Procurement (P-1) ( <i>\$ in Millions</i> )				-			25.645			25.853			20.882			-			20.882		
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-			-			-			-			-			-		
Total Obligation Authority ( <i>\$ in Millions</i> )				-			25.645			25.853			20.882			-			20.882		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares ( <i>\$ in Millions</i> )				-			-			-			-			-			-		
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Hardware - Hardware End Item Cost																					
Recurring Cost																					
M206 FLARE - L410 <sup>(†)</sup>	-	-	-	36.00	697,955	25.126	36.00	704,158	25.350	34.27	599,066	20.530	-	-	-	34.27	599,066	20.530			
Subtotal: Recurring Cost	-	-	-	-	-	25.126	-	-	25.350	-	-	20.530	-	-	-	-	-	20.530			
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	25.126	-	-	25.350	-	-	20.530	-	-	-	-	-	20.530			
Support - Support End Item Cost																					
PRODUCTION ENGINEERING	-	-	-	-	-	0.513	-	-	0.497	-	-	0.350	-	-	-	-	-	0.350			
QUALITY ASSURANCE	-	-	-	-	-	0.006	-	-	0.006	-	-	0.002	-	-	-	-	-	0.002			
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.519	-	-	0.503	-	-	0.352	-	-	-	-	-	0.352			
Gross/Weapon System Cost	-	-	-	-	-	25.645	-	-	25.853	-	-	20.882	-	-	-	-	-	20.882			
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.  <sup>(†)</sup> indicates the presence of a P-5a																					

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Air Force								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 16				<b>P-1 Line Item Number / Title:</b> 356010 / FLARES				<b>Item Number / Title [DODIC]:</b> - / (L410) M206 FLARE				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
M206 FLARE - L410		2015	KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA	MIPR	AFLCMC Hill AFB	May 2015	Sep 2016	697,955	36.00	Y		
M206 FLARE - L410		2016	KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA	MIPR	AFLCMC Hill AFB	Mar 2016	Mar 2017	704,158	36.00	Y		
M206 FLARE - L410		2017	KILGORE AND ARMTEC / TOONE, TNA ND COACHELLA, CA	MIPR	AFLCMC Hill AFB	Mar 2017	Mar 2018	599,066	34.27	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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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Air Force														<b>Date:</b> February 2016																																																																																																																																																																																																																	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 16							<b>P-1 Line Item Number / Title:</b> 356010 / FLARES							<b>Item Number / Title [DODIC]:</b> - / (L461) MJU-10 FLARE																																																																																																																																																																																																																	
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<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>																																																																																																																																																																																																																	
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-																																																																																																																																																																																																																	
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		14.177		10.000		5.000		-		5.000																																																																																																																																																																																																																	
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-																																																																																																																																																																																																																	
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Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-																																																																																																																																																																																																																	
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>				-		<b>14.177</b>		<b>10.000</b>		<b>5.000</b>		-		<b>5.000</b>																																																																																																																																																																																																																	
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<p>Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Cost Elements</th> <th colspan="3">Prior Years</th> <th colspan="3">FY 2015</th> <th colspan="3">FY 2016</th> <th colspan="3">FY 2017 Base</th> <th colspan="3">FY 2017 OCO</th> <th colspan="3">FY 2017 Total</th> </tr> <tr> <th>Unit Cost (\$)</th> <th>Qty (Each)</th> <th>Total Cost (\$ M)</th> <th>Unit Cost (\$)</th> <th>Qty (Each)</th> <th>Total Cost (\$ M)</th> <th>Unit Cost (\$)</th> <th>Qty (Each)</th> <th>Total Cost (\$ M)</th> <th>Unit Cost (\$)</th> <th>Qty (Each)</th> <th>Total Cost (\$ M)</th> <th>Unit Cost (\$)</th> <th>Qty (Each)</th> <th>Total Cost (\$ M)</th> <th>Unit Cost (\$)</th> <th>Qty (Each)</th> <th>Total Cost (\$ M)</th> </tr> <tr> <td colspan="19">Hardware - Hardware End Item Cost</td> </tr> <tr> <td colspan="19">Recurring Cost</td> </tr> <tr> <td>MJU-10 FLARE - L461<sup>(†)</sup></td> <td>-</td> <td>-</td> <td>-</td> <td>210.90</td> <td>67,205</td> <td>14.174</td> <td>215.00</td> <td>46,481</td> <td>9.994</td> <td>182.12</td> <td>27,435</td> <td>4.996</td> <td>-</td> <td>-</td> <td>-</td> <td>182.12</td> <td>27,435</td> <td>4.996</td> </tr> <tr> <td>Subtotal: Recurring Cost</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>14.174</td> <td>-</td> <td>-</td> <td>9.994</td> <td>-</td> <td>-</td> <td>4.996</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>4.996</td> </tr> <tr> <td>Subtotal: Hardware - Hardware End Item Cost</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>14.174</td> <td>-</td> <td>-</td> <td>9.994</td> <td>-</td> <td>-</td> <td>4.996</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>4.996</td> </tr> <tr> <td colspan="19">Support - Support End Item Cost</td> </tr> <tr> <td>QUALITY ASSURANCE</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>0.003</td> <td>-</td> <td>-</td> <td>0.006</td> <td>-</td> <td>-</td> <td>0.004</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>0.004</td> </tr> <tr> <td>Subtotal: Support - Support End Item Cost</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>0.003</td> <td>-</td> <td>-</td> <td>0.006</td> <td>-</td> <td>-</td> <td>0.004</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>0.004</td> </tr> <tr> <td>Gross/Weapon System Cost</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>14.177</td> <td>-</td> <td>-</td> <td>10.000</td> <td>-</td> <td>-</td> <td>5.000</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>5.000</td> </tr> </table>																Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Hardware - Hardware End Item Cost																			Recurring Cost																			MJU-10 FLARE - L461 <sup>(†)</sup>	-	-	-	210.90	67,205	14.174	215.00	46,481	9.994	182.12	27,435	4.996	-	-	-	182.12	27,435	4.996	Subtotal: Recurring Cost	-	-	-	-	-	14.174	-	-	9.994	-	-	4.996	-	-	-	-	-	4.996	Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	14.174	-	-	9.994	-	-	4.996	-	-	-	-	-	4.996	Support - Support End Item Cost																			QUALITY ASSURANCE	-	-	-	-	-	0.003	-	-	0.006	-	-	0.004	-	-	-	-	-	0.004	Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.003	-	-	0.006	-	-	0.004	-	-	-	-	-	0.004	Gross/Weapon System Cost	-	-	-	-	-	14.177	-	-	10.000	-	-	5.000	-	-	-	-	-	5.000
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO				FY 2017 Total																																																																																																																																																																																																														
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<p><b>Remarks:</b>          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.</p> <p>(†) indicates the presence of a P-5a</p>																																																																																																																																																																																																																															



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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Air Force								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 16				<b>P-1 Line Item Number / Title:</b> 356010 / FLARES				<b>Item Number / Title [DODIC]:</b> - / (L461) MJU-10 FLARE				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
MJU-10 FLARE - L461		2015	KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA	MIPR	AFLCMC Hill AFB	Mar 2015	Mar 2016	67,205	210.90	Y		
MJU-10 FLARE - L461		2016	KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA	MIPR	AFLCMC Hill AFB	Mar 2016	Mar 2017	46,481	215.00	Y		
MJU-10 FLARE - L461		2017	KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA	MIPR	AFLCMC Hill AFB	Mar 2017	Mar 2018	27,435	182.12	Y		

**Remarks:**

The Single Manager for Conventional Ammunition (SMCA/Army) procures the MJU-10 Countermeasure 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.

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016						
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:									
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		7.000		26.171		16.885		-		16.885				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				-		7.000		26.171		16.885		-		16.885				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				-		7.000		26.171		16.885		-		16.885				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
MJU-7A/B IR FLARE - L463 <sup>(†)</sup>	-	-	-	59.90	116,751	6.993	61.00	428,983	26.168	55.79	302,617	16.883	-	-	-	55.79	302,617	16.883
Subtotal: Recurring Cost	-	-	-	-	-	6.993	-	-	26.168	-	-	16.883	-	-	-	-	-	16.883
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	6.993	-	-	26.168	-	-	16.883	-	-	-	-	-	16.883
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.007	-	-	0.003	-	-	0.002	-	-	-	-	-	0.002
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.007	-	-	0.003	-	-	0.002	-	-	-	-	-	0.002
Gross/Weapon System Cost	-	-	-	-	-	7.000	-	-	26.171	-	-	16.885	-	-	-	-	-	16.885
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.  (†) indicates the presence of a P-5a																		

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Air Force								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 16				<b>P-1 Line Item Number / Title:</b> 356010 / FLARES				<b>Item Number / Title [DODIC]:</b> - / (L463) MJU-7A/B, IR FLARE				

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
MJU-7A/B IR FLARE - L463		2015	KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA	MIPR	AFLCMC Hill AFB	Mar 2015	Mar 2016	116,751	59.90	Y		
MJU-7A/B IR FLARE - L463		2016	KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA	MIPR	AFLCMC Hill AFB	Mar 2016	Mar 2017	428,983	61.00	Y		
MJU-7A/B IR FLARE - L463		2017	KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA	MIPR	AFLCMC Hill AFB	Mar 2017	Mar 2018	302,617	55.79	Y		

**Remarks:**  
The Single Manager for Conventional Ammunition (SMCA/Army) procures the MJU-7 Infrared 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-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force										Date: February 2016	
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA21) MJU-53/ B INFRARED COUNTERMEASURE FLARE	A		-	-	-	75.80	165,883	12.574	76.62	280,317	21.478	65.70	159,086	10.452	65.70	49,710	3.266	65.70	208,796	13.718
Subtotal: Uncategorized			-	-	-	-	-	12.574	-	-	21.478	-	-	10.452	-	-	3.266	-	-	13.718
Total			-	-	-	-	-	12.574	-	-	21.478	-	-	10.452	-	-	3.266	-	-	13.718

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: PB 2017 Air Force										Date: February 2016									
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA36) MJU-62 IR CM FLARE	A		-	-	-	196.00	35,714	7.000	198.00	40,202	7.960	198.26	37,324	7.400	-	-	-	198.26	37,324	7.400
Subtotal: Uncategorized			-	-	-	-	-	7.000	-	-	7.960	-	-	7.400	-	-	-	-	-	7.400
Total			-	-	-	-	-	7.000	-	-	7.960	-	-	7.400	-	-	-	-	-	7.400

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: PB 2017 Air Force															Date: February 2016					
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA66) MJU-61 IR CM Flare	A		-	-	-	-	-	-	-	-	-	75.00	53,333	4.000	-	-	-	75.00	53,333	4.000
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	-	-	-	4.000	-	-	-	-	-	4.000
Total			-	-	-	-	-	-	-	-	-	-	-	4.000	-	-	-	-	-	4.000

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

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2017 Air Force															<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 16								<b>P-1 Line Item Number / Title:</b> 356010 / FLARES							<b>Aggregated Items Title:</b> (LA61) MJU-66 CM ACFT FLARE				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA61) MJU-66 Decoy ACFT Flare	A		-	-	-	200.00	39,000	7.800	447.68	26,854	12.022	130.08	108,348	14.094	130.08	25,099	3.265	130.08	133,447	17.359
Subtotal: Uncategorized			-	-	-	-	-	7.800	-	-	12.022	-	-	14.094	-	-	3.265	-	-	17.359
Total			-	-	-	-	-	7.800	-	-	12.022	-	-	14.094	-	-	3.265	-	-	17.359

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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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2017 Air Force										<b>Date:</b> February 2016	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 16					<b>P-1 Line Item Number / Title:</b> 356010 / FLARES					<b>Aggregated Items Title:</b> (LA67) FLARE, IR, CM (MJU-71/B)	

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA67) FLARE, IR, CM (MJU-71/B)	A		-	-	-	685.00	26,277	18.000	706.01	26,225	18.515	480.14	36,376	17.466	-	-	-	480.15	36,376	17.466
Subtotal: Uncategorized			-	-	-	-	-	18.000	-	-	18.515	-	-	17.466	-	-	-	-	-	17.466
Total			-	-	-	-	-	18.000	-	-	18.515	-	-	17.466	-	-	-	-	-	17.466

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 Munitions Division, AFMC. Unit prices are estimates from industry.



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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16						P-1 Line Item Number / Title: 356010 / FLARES						Aggregated Items Title: (LA68) MJU-68/B IR CM FLARE								
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA68) MJU-68 IR CM FLARE	A		-	-	-	2,425.00	2,062	5.000	2,452.18	2,039	5.000	4,000.56	3,547	14.190	-	-	-	4,000.56	3,547	14.190
Subtotal: Uncategorized			-	-	-	-	-	5.000	-	-	5.000	-	-	14.190	-	-	-	-	-	14.190
Total			-	-	-	-	-	5.000	-	-	5.000	-	-	14.190	-	-	-	-	-	14.190

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 Munitions Division, AFMC. Unit prices are estimates from industry.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2017 Air Force															<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 16								<b>P-1 Line Item Number / Title:</b> 356010 / FLARES							<b>Aggregated Items Title:</b> (LA69) MJU-69/B IR CM FLARE				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA69) MJU-69 IR CM FLARE	A		-	-	-	2,425.00	2,062	5.000	2,452.18	2,039	5.000	4,000.56	3,547	14.190	-	-	-	4,000.56	3,547	14.190
Subtotal: Uncategorized			-	-	-	-	-	5.000	-	-	5.000	-	-	14.190	-	-	-	-	-	14.190
Total			-	-	-	-	-	5.000	-	-	5.000	-	-	14.190	-	-	-	-	-	14.190

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

**Remarks:**

The MJU-69 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: PB 2017 Air Force															Date: February 2016					
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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LY17) ALA-17 Flare Cartridge	A		-	-	-	606.79	1,813	1.100	-	-	-	613.36	16,548	10.150	-	-	-	613.37	16,548	10.150
Subtotal: Uncategorized			-	-	-	-	-	1.100	-	-	-	-	-	10.150	-	-	-	-	-	10.150
Total			-	-	-	-	-	1.100	-	-	-	-	-	10.150	-	-	-	-	-	10.150

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 18: Fuzes							<b>P-1 Line Item Number / Title:</b> 356120 / Fuzes					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	109.265	206.919	229.252	-	229.252	118.424	117.591	162.252	176.570	-	1,120.273
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	109.265	206.919	229.252	-	229.252	118.424	117.591	162.252	176.570	-	1,120.273
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>109.265</b>	<b>206.919</b>	<b>229.252</b>	<b>-</b>	<b>229.252</b>	<b>118.424</b>	<b>117.591</b>	<b>162.252</b>	<b>176.570</b>	<b>-</b>	<b>1,120.273</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b>  FY2015 funding includes \$24.848M appropriated for Overseas Contingency Operations.</p> <p>FY2016 funding includes \$7.996M requested for Overseas Contingency Operations.</p> <p>The following Weapon System Cost Elements are represented in this P-1 line:</p> <ul style="list-style-type: none"> <li>- 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 the Air Armament Center, Eglin AFB, Florida. The Air Force is the lead service for procurement. FY2015 \$12.424M Overseas Contingency Operations funding appropriated. FY2016 funding includes \$3.998M requested for Overseas Contingency Operations.</li> <li>- The FMU-139D/B is the latest general purpose fuze that is currently being pursued with the Navy. This fuze will marry 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 its battery. These safety concerns are specific to Navy employment and do not impact the Air Force. This program is currently pending Contract Award.</li> <li>- FMU-143S/B Fuze (ED29): Used to arm the bomb after release from the aircraft. Primarily applicable to precision guided munitions and penetrator bombs such as the BLU-109. Designed with insensitive munitions technology, it is the primary fuze of the FMU-143 generation for all aircraft and weapons hard target penetration applications. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.</li> <li>- DSU-33D/B Proximity Sensor (KY70): 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. The DSU-33D/B replaces the DSU-33C/B (GY33). This item will be procured through the Army Single Manager for Conventional Ammunition. FY2015 \$12.424M Overseas Contingency Operations funding appropriated. FY2016 funding includes \$3.996M requested for Overseas Contingency Operations.</li> </ul>												

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 18: Fuzes		<b>P-1 Line Item Number / Title:</b> 356120 / Fuzes
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A	
<p>- The Hard Target Void Sensing Fuze (HTVSF) 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 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 &amp; Low-Rate Initial Production (LRIP) was awarded in Jul FY15. This item is procured through the Air Force Life Cycle Management Center (AFLCMC) Eglin AFB, Florida.</p> <p>- 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.</p> <p>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.</p> <p>PEs associated with this P-1 Line are 0208030F and 0207599F.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force	<b>Date:</b> February 2016
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 18: Fuzes	<b>P-1 Line Item Number / Title:</b> 356120 / Fuzes
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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<b>Line Item MDAP/MAIS Code:</b> N/A	<b>Item MDAP/MAIS Code(s):</b> N/A
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Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	(ED29) FMU-143S/B 60 MIL SEC FUZE	P-5a	A	- / -	- / -	- / 10.000	- / 10.000	- / -	- / 10.000
P-40a	(ED51) FMU-152 FUZE SYSTEM, UNIVERSAL			- / -	- / 82.985	- / 137.698	- / 179.541	- / -	- / 179.541
P-5	(KY70) DSU-33D/B PROX SENSOR	P-5a	A	- / -	- / 13.000	- / 17.896	- / 13.363	- / -	- / 13.363
P-40a	FMU-139 NRE			- / 0.000	- / -	- / 8.595	- / 4.105	- / -	- / 4.105
P-40a	FMU-139D/B, PGM SPT, Qual Test			- / -	- / -	- / 8.590	- / -	- / -	- / -
P-40a	FUZES (ITEMS LESS THAN \$5 MILLION)			- / -	- / -	- / 7.140	- / -	- / -	- / -
P-5	(EE27) FMU-167 HTVSF	P-5a	A	- / -	151 / 13.280	475 / 17.000	1,575 / 22.243	- / -	1,575 / 22.243
P-40	<b>Total Gross/Weapon System Cost</b>			- / 0.000	- / 109.265	- / 206.919	- / 229.252	- / -	- / 229.252

\*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**  
FY2017 purchases various fuzes for use with precision guided, penetrator and unguided bombs. The FMU-152 Fuze system provides multiple arm times, instantaneous and multiple short and long delay detonation times, hard target survivability, cockpit programmability, and increased service/shelf life. The FMU-143 fuze is compatible with all aircraft and used to direct guided and unguided weapons against hard targets.

Program Office is working to pull Multi-Service Operational Test & Evaluation (MOT&E) to the left to award FRP at the beginning of FY17 in order to avoid Production gap. Contractually Full Rate Production (FRP) award must be awarded NLT 90 days from LRIP Lot 2 Initial Deliveries.

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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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Air Force														<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 18							<b>P-1 Line Item Number / Title:</b> 356120 / Fuzes							<b>Item Number / Title [DODIC]:</b> - / (ED29) FMU-143S/B 60 MIL SEC FUZE				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>								
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2015</b>		<b>FY 2016</b>		<b>FY 2017 Base</b>		<b>FY 2017 OCO</b>		<b>FY 2017 Total</b>				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		-		10.000		10.000		-		10.000				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				-		-		10.000		10.000		-		10.000				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>				-		-		<b>10.000</b>		<b>10.000</b>		-		<b>10.000</b>				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2015</b>			<b>FY 2016</b>			<b>FY 2017 Base</b>			<b>FY 2017 OCO</b>			<b>FY 2017 Total</b>		
	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)	<b>Unit Cost</b> (\$)	<b>Qty</b> (Each)	<b>Total Cost</b> (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) <sup>(†)</sup>	-	-	-	-	-	-	5,553.00	1,784	9.907	5,640.91	1,512	8.529	-	-	-	5,640.91	1,512	8.529
PA60 CONTAINER	-	-	-	-	-	-	30.00	1,873	0.056	31.90	1,549	0.049	-	-	-	31.90	1,549	0.049
PBXN-11	-	-	-	-	-	-	47.00	606	0.028	40.53	513	0.021	-	-	-	40.53	513	0.021
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	9.991	-	-	8.599	-	-	-	-	-	8.599
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	-	-	-	9.991	-	-	8.599	-	-	-	-	-	8.599
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	-	-	-	0.009	-	-	0.006	-	-	-	-	-	0.006
FIRST ARTICLE TEST	-	-	-	-	-	-	-	-	-	-	-	1.350	-	-	-	-	-	1.350
PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	-	-	-	0.045	-	-	-	-	-	0.045
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	0.009	-	-	1.401	-	-	-	-	-	1.401
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	-	-	-	10.000	-	-	10.000	-	-	-	-	-	10.000
<b>Remarks:</b> 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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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 18	<b>P-1 Line Item Number / Title:</b> 356120 / Fuzes	<b>Item Number / Title [DODIC]:</b> - / (ED29) FMU-143S/B 60 MIL SEC FUZE
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<p>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.</p> <p>(†) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force									Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18				P-1 Line Item Number / Title: 356120 / Fuzes					Item Number / Title [DODIC]: - / (ED29) FMU-143S/B 60 MIL SEC FUZE				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date	
LOAD, ASSEMBLE, PACK (LAP)		2016	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	AFLCMC Hill AFB	Apr 2016	Apr 2017	1,784	5,553.00	Y		Jan 2016	
LOAD, ASSEMBLE, PACK (LAP)		2017	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	AFLCMC Hill AFB	Mar 2017	Jan 2018	1,512	5,640.91	Y		Jan 2017	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(ED51) FMU-152 FUZE SYSTEM, UNIVERSAL	A		-	-	-	4,000.00	20,746	82.985	3,000.00	45,899	137.698	3,000.00	59,847	179.541	-	-	-	3,000.00	59,847	179.541
Subtotal: Uncategorized			-	-	-	-	-	82.985	-	-	137.698	-	-	179.541	-	-	-	-	-	179.541
Total			-	-	-	-	-	82.985	-	-	137.698	-	-	179.541	-	-	-	-	-	179.541

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

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016								
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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:											
Resource Summary				Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
Procurement Quantity <i>(Units in Each)</i>				-			-			-			-			-					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-			13.000			17.896			13.363			-			13.363		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				-			13.000			17.896			13.363			-			13.363		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				-			13.000			17.896			13.363			-			13.363		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements		Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total				
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)		
Hardware - (KY70) DSU-33D/B PROX SENSOR Cost																					
Recurring Cost																					
DSU-33D/B PROX FUZE <sup>(†)</sup>		-	-	-	2,800.00	4,643	13.000	2,900.00	6,171	17.896	2,900.59	4,607	13.363	-	-	-	2,900.59	4,607	13.363		
Subtotal: Recurring Cost		-	-	-	-	-	13.000	-	-	17.896	-	-	13.363	-	-	-	-	-	13.363		
Subtotal: Hardware - (KY70) DSU-33D/B PROX SENSOR Cost		-	-	-	-	-	13.000	-	-	17.896	-	-	13.363	-	-	-	-	-	13.363		
Gross/Weapon System Cost		-	-	-	-	-	13.000	-	-	17.896	-	-	13.363	-	-	-	-	-	13.363		
<sup>(†)</sup> indicates the presence of a P-5a																					

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Air Force								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 18				<b>P-1 Line Item Number / Title:</b> 356120 / Fuzes				<b>Item Number / Title [DODIC]:</b> - / (KY70) DSU-33D/B PROX SENSOR				
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
DSU-33D/B PROX FUZE		2015	ATK TACTICAL SYSTEMS CO. / Rocket Center, WV	MIPR	ACC-ROCK ISLAND	Apr 2015	Apr 2016	4,643	2,800.00	Y		
DSU-33D/B PROX FUZE		2016	ATK TACTICAL SYSTEMS CO. / Rocket Center, WV	MIPR	ACC-ROCK ISLAND	Apr 2016	Apr 2017	6,171	2,900.00	N		

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2017 Air Force															<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 18								<b>P-1 Line Item Number / Title:</b> 356120 / Fuzes							<b>Aggregated Items Title:</b> FMU-139 NRE				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
FMU-139 NRE	A		-	-	0.000	-	-	-	-	-	8.595	-	-	4.105	-	-	-	-	-	4.105
Subtotal: Uncategorized			-	-	0.000	-	-	-	-	-	8.595	-	-	4.105	-	-	-	-	-	4.105
Total			-	-	0.000	-	-	-	-	-	8.595	-	-	4.105	-	-	-	-	-	4.105

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.

- FY17: \$4.105M Pgm Office Spt/Qual Testing

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2017 Air Force															<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 18								<b>P-1 Line Item Number / Title:</b> 356120 / Fuzes							<b>Aggregated Items Title:</b> FMU-139D/B, PGM SPT, Qual Test				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Program Support & Qual Testing																				
Pgm Spt & Qual Test	A		-	-	-	-	-	-	-	-	8.590	-	-	-	-	-	-	-	-	-
Subtotal: Program Support & Qual Testing			-	-	-	-	-	-	-	-	8.590	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	8.590	-	-	-	-	-	-	-	-	-

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.

FY16 includes Program Support and Qual Testing

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
FMU-152/B D-2 (EB93)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FMU-143R/B FUZE (ED30)	A		-	-	-	-	-	-	5,635.36	1,267	7.140	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	7.140	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	-	-	-	7.140	-	-	-	-	-	-	-	-	-

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



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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 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:										
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total					
Procurement Quantity <i>(Units in Each)</i>				-		151		475		1,575		-		1,575					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		13.280		17.000		22.243		-		22.243					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P-1) <i>(\$ in Millions)</i>				-		13.280		17.000		22.243		-		22.243					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Total Obligation Authority <i>(\$ in Millions)</i>				-		13.280		17.000		22.243		-		22.243					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-		87,947.02		35,789.47		14,122.54		-		14,122.54					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements		Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
		Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																			
Recurring Cost																			
Hard Target Void Sensing Fuze CLIN 1001 <sup>(†)</sup>	-	-	-	20,872.00	151	3.152	19,515.79	475	9.270	11,346.03	1,575	17.870	-	-	-	11,346.03	1,575	17.870	
Subtotal: Recurring Cost	-	-	-	-	-	3.152	-	-	9.270	-	-	17.870	-	-	-	-	-	17.870	
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	3.152	-	-	9.270	-	-	17.870	-	-	-	-	-	17.870	
Support - Support End Item Cost																			
Program Management Administration	-	-	-	-	-	0.350	-	-	0.739	-	-	1.802	-	-	-	-	-	1.802	
Trainers/Spares	-	-	-	-	-	0.557	-	-	-	-	-	-	-	-	-	-	-	-	
Engineering Change Order	-	-	-	-	-	4.968	-	-	2.000	-	-	-	-	-	-	-	-	-	
Testing	-	-	-	-	-	2.081	-	-	4.386	-	-	1.622	-	-	-	-	-	1.622	
FAAT	-	-	-	-	-	1.822	-	-	-	-	-	-	-	-	-	-	-	-	
Life Cycle Surveillance Test	-	-	-	-	-	-	-	-	-	-	-	0.949	-	-	-	-	-	0.949	
Technical Support	-	-	-	-	-	0.350	-	-	0.605	-	-	-	-	-	-	-	-	-	
Misc Contracts (Targets)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Support - Support End Item Cost	-	-	-	-	-	10.128	-	-	7.730	-	-	4.373	-	-	-	-	-	4.373	
Gross/Weapon System Cost	-	-	-	87,947.02	151	13.280	35,789.47	475	17.000	14,122.54	1,575	22.243	-	-	-	14,122.54	1,575	22.243	

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<b>Exhibit P-5, Cost Analysis:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 18	<b>P-1 Line Item Number / Title:</b> 356120 / Fuzes	<b>Item Number / Title [DODIC]:</b> - / (EE27) FMU-167 HTVSF
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force									Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18			P-1 Line Item Number / Title: 356120 / Fuzes						Item Number / Title [DODIC]: - / (EE27) FMU-167 HTVSF			
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hard Target Void Sensing Fuze CLIN 1001		2015	Orbital ATK / Rocket Center, WV	C / FFP	Eglin AFB	Jul 2015	Feb 2016	151	20,872.00	Y		
Hard Target Void Sensing Fuze CLIN 1001		2016	Orbital ATK / Rocket Center, WV	C / FFP	Eglin AFB	Jul 2016	Feb 2017	475	19,515.79	Y		
Hard Target Void Sensing Fuze CLIN 1001		2017	Orbital ATK / Rocket Center, WV	C / FFP	Eglin AFB	Jul 2017	Feb 2018	1,575	11,346.03	Y		

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force										<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 02: Weapons / BSA 1: Small Arms							<b>P-1 Line Item Number / Title:</b> 357010 / SMALL ARMS					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A					<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A			<b>Item MDAP/MAIS Code(s):</b> N/A									
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	8.096	24.648	60.072	37.459	-	37.459	33.326	33.970	34.599	35.214	-	267.384
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	8.096	24.648	60.072	37.459	-	37.459	33.326	33.970	34.599	35.214	-	267.384
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>8.096</b>	<b>24.648</b>	<b>60.072</b>	<b>37.459</b>	<b>-</b>	<b>37.459</b>	<b>33.326</b>	<b>33.970</b>	<b>34.599</b>	<b>35.214</b>	<b>-</b>	<b>267.384</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Dollars</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**  
 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 and select M9 pistols. 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 AN/PAS-13E(V)2 Thermal Weapon Sight (TWS) is a self-contained infrared (IR) imaging sensor used for target acquisition (sighting), to include conditions of low visibility. The AN/PAS-13E(V)2 is designed to mount on the M249 Automatic Rifle and the M240B Medium Machine Gun. The TWS is a rugged, lightweight, compact, battery powered sight capable of target acquisition under conditions of limited visibility such as darkness, smoke, fog, dust and haze. The AN/PAS-13E(V)2 can also operate effectively during daylight. Unlike image intensifiers that require low levels of light to operate effectively, the AN/PAS-13E(V)2 requires no visible light to operate and will not shut down or bloom when hit by direct light. Equally important, its use cannot be detected, since it operates silently and emits no heat or RF energy.

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.

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2017 Air Force							<b>Date:</b> February 2016		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F: Procurement of Ammunition, Air Force / BA 02: Weapons / BSA 1: Small Arms					<b>P-1 Line Item Number / Title:</b> 357010 / SMALL ARMS				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A		<b>Item MDAP/MAIS Code(s):</b> N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	AN/PAS-13E(V)2			- / -	- / 6.082	- / -	- / -	- / -	- / -
P-40a	M320A1 (40MM GRENADE LAUNCHER)			- / 0.000	- / 0.341	- / -	- / 30.800	- / -	- / 30.800
P-5	M4 Carbine (5.56mm)	P-5a	A	- / 8.096	- / 0.756	- / 39.601	- / 3.153	- / -	- / 3.153
P-40a	SMALL ARMS Items Less Than \$5M			- / -	- / 17.469	- / 20.471	- / 3.506	- / -	- / 3.506
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>			<b>- / 8.096</b>	<b>- / 24.648</b>	<b>- / 60.072</b>	<b>- / 37.459</b>	<b>- / -</b>	<b>- / 37.459</b>
<p>*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>									
<p><b>Justification:</b> FY2017 funding procures M4 Carbines and M320A1 Grenade Launchers. Funding also procures M4A1 Carbines (full auto), M240B Machine Guns, M9 Pistols, Modular Combat Shotguns, M2A1 Machine Guns, AN/PEQ-15 Laser Designators, weapon modification projects, First Destination Transportation costs, and PMA dollars to support small arms installation and unit mission requirements for all Air Force Personnel.</p>									

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1						P-1 Line Item Number / Title: 357010 / SMALL ARMS						Aggregated Items Title: AN/PAS-13E(V)2								
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
AN/PAS-13E(V)2																				
AN/PAS-13E(V)2 Thermal Weapon Sight		A	-	-	-	5,068.33	1,200	6.082	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: AN/PAS-13E(V)2			-	-	-	-	-	6.082	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	6.082	-	-	-	-	-	-	-	-	-	-	-	-

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
M320A1 (40MM GRENADE LAUNCHER)	A		-	-	0.000	3,410.00	100	0.341	-	-	-	5,600.00	5,500	30.800	-	-	-	5,600.00	5,500	30.800
Subtotal: Uncategorized			-	-	0.000	-	-	0.341	-	-	-	-	-	30.800	-	-	-	-	-	30.800
Total			-	-	0.000	-	-	0.341	-	-	-	-	-	30.800	-	-	-	-	-	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 FY17 are assumed and are subject to change.



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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016								
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)								
ID Code (A=Service Ready, B=Not Service Ready) : A										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
Procurement Quantity <i>(Units in Each)</i>				-			-			-			-			-			-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				8.096			0.756			39.601			3.153			-			3.153		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				8.096			0.756			39.601			3.153			-			3.153		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				8.096			0.756			39.601			3.153			-			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 Dollars)</i>				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total					
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)			
Support - Support End Item Cost																					
M4 CARBINE (5.56mm) <sup>(†)</sup>	900.00	8,996	8.096	1,102.04	686	0.756	1,115.52	35,500	39.601	1,122.06	2,810	3.153	-	-	-	1,122.06	2,810	3.153			
Subtotal: Support - Support End Item Cost	-	-	8.096	-	-	0.756	-	-	39.601	-	-	3.153	-	-	-	-	-	3.153			
Gross/Weapon System Cost	-	-	8.096	-	-	0.756	-	-	39.601	-	-	3.153	-	-	-	-	-	3.153			
Remarks: Unit costs for FY17 are assumed and subject to change.																					
(†) indicates the presence of a P-5a																					

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2017 Air Force								<b>Date:</b> February 2016				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 02 / 1			<b>P-1 Line Item Number / Title:</b> 357010 / SMALL ARMS					<b>Item Number / Title [DODIC]:</b> - / M4 Carbine (5.56mm)				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
M4 CARBINE (5.56mm)		2013	FN MANUFACRTURING / COLUMBIA, SC	MIPR	ARMY/ACC	Oct 2013	Jun 2015	4,399	900.00	Y		Oct 2013
M4 CARBINE (5.56mm)		2014	FN MANUFACTURING / COLUMBIA, SC	MIPR	ARMY/ACC	Oct 2014	May 2018	4,597	900.00	Y		Oct 2014
M4 CARBINE (5.56mm)		2015	FN MANUFACTURING / COLUMBIA, SC	MIPR	ARMY/ACC	Oct 2015	Dec 2019	686	1,102.04	Y		
M4 CARBINE (5.56mm)		2016	FN MANUFACTURING / COLUMBIA, SC	MIPR	ARMY/ACC	Jan 2016	Jan 2020	35,500	1,115.52	Y		
M4 CARBINE (5.56mm)		2017	FN MANUFACTURING / COLUMBIA, SC	MIPR	ARMY/ACC	Jan 2017	Jan 2021	2,810	1,122.06	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 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 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
			Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
SMALL ARMS ITEMS LESS THAN \$5 MILLION																				
Ballistic Sighting Module	A		-	-	-	2,397.64	1,300	3.117	-	-	-	-	-	-	-	-	-	-	-	-
AN/PEQ-15 Laser Designator	A		-	-	-	769.00	7,200	5.537	925.00	500	0.463	928.30	265	0.246	-	-	-	928.30	265	0.246
PAS13Dv3 Thermal Sight Heavy	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PSQ-23 Storm MLFR RNGE Finder	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Night Vision PVS-30	A		-	-	-	8,771.00	500	4.386	-	-	-	-	-	-	-	-	-	-	-	-
M2A1 (.50 Cal Machine Gun)	A		-	-	-	-	-	-	14,000.00	310	4.340	14,000.00	20	0.280	-	-	-	14,000.00	20	0.280
M240B Machinegun (7.62mm)	A		-	-	-	-	-	-	8,126.00	50	0.406	8,126.00	25	0.203	-	-	-	8,126.00	25	0.203
M110 SASS	A		-	-	-	-	-	-	12,501.00	650	8.126	-	-	-	-	-	-	-	-	-
M107 Sniper Rifle (.50 cal)	A		-	-	-	12,857.90	15	0.193	12,500.00	25	0.313	-	-	-	-	-	-	-	-	-
M24 Sniper Rifle (7.26mm)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M4A1 Carbine (5.56mm - Auto)	A		-	-	-	879.38	400	0.352	679.00	1,200	0.815	680.00	25	0.017	-	-	-	680.00	25	0.017
Modular Combat Shotgun (12 Ga)	A		-	-	-	833.33	24	0.020	815.00	300	0.245	815.00	50	0.041	-	-	-	815.00	50	0.041
M9 Pistol (9mm)	A		-	-	-	705.10	2,411	1.700	679.00	2,000	1.358	679.00	500	0.340	-	-	-	679.00	500	0.340
M11 Compact Pistol (9mm)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M150	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOD PROJECTS PARTS PROCUREMENT	A		-	-	-	-	-	0.763	-	-	0.365	-	-	0.350	-	-	-	-	-	0.350
FIRST DESTINATION TRANSPORTATION	A		-	-	-	-	-	0.411	-	-	3.098	-	-	1.200	-	-	-	-	-	1.200
AN/PEM-1 LASER BORE LIGHT	A		-	-	-	-	-	-	379.00	300	0.114	-	-	-	-	-	-	-	-	-
PMA- OTHER GOVERNMENT COST	A		-	-	-	-	-	0.347	-	-	0.080	-	-	0.080	-	-	-	-	-	0.080
PMA- CONTRACTOR SERVICES	A		-	-	-	-	-	0.644	-	-	0.750	-	-	0.750	-	-	-	-	-	0.750
Subtotal: SMALL ARMS ITEMS LESS THAN \$5 MILLION			-	-	-	-	-	17.469	-	-	20.471	-	-	3.506	-	-	-	-	-	3.506
Total			-	-	-	-	-	17.469	-	-	20.471	-	-	3.506	-	-	-	-	-	3.506

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

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2017 Air Force		<b>Date:</b> February 2016
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 02 / 1	<b>P-1 Line Item Number / Title:</b> 357010 / SMALL ARMS	<b>Aggregated Items Title:</b> SMALL ARMS Items Less Than \$5M

**Remarks:**  
Unit costs for FY17 are assumed and subject to change.