

UNCLASSIFIED

**Department of Defense  
Fiscal Year (FY) 2016 President's Budget Submission**

February 2015



**Air Force**

*Justification Book Volume 1 of 1*

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

UNCLASSIFIED

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

**UNCLASSIFIED**

Air Force • President's Budget Submission FY 2016 • Procurement

**Volume 1 Table of Contents**

Introduction and Explanation of Contents.....Volume 1 - iii

Comptroller Exhibit P-1.....Volume 1 - v

Line Item Table of Contents (by Appropriation then Line Number)..... Volume 1 - xiii

Line Item Table of Contents (Alphabetically by Line Item Title).....Volume 1 - xv

Acronyms..... Volume 1 - xvii

Exhibit P-40s..... Volume 1 - 1

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

**UNCLASSIFIED**

## Appropriation Language

### Fiscal Year (FY) 2016 President's Budget Submission 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; and other expenses necessary for the foregoing purposes, \$1,758,843,000 and overseas contingency operations, \$228,874,000 to remain available for obligation until September 30, 2018.

**UNCLASSIFIED**

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

## UNCLASSIFIED

Department of the Air Force  
 FY 2016 President's Budget  
 Exhibit P-1 FY 2016 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

28 Jan 2015

Appropriation -----	FY 2014 (Base & OCO) -----	FY 2015 Base Enacted -----	FY 2015 OCO Enacted -----	FY 2015 Total Enacted -----
Aircraft Procurement, Air Force	10,608,060	12,067,703	481,019	12,548,722
Missile Procurement, Air Force	4,310,213	4,626,015	136,189	4,762,204
Space Procurement, Air Force				
Procurement of Ammunition, Air Force	884,003	659,909	219,785	879,694
Other Procurement, Air Force	19,174,630	16,779,633	3,607,526	20,387,159
Total Department of the Air Force	34,976,906	34,133,260	4,444,519	38,577,779

## UNCLASSIFIED

Department of the Air Force  
 FY 2016 President's Budget  
 Exhibit P-1 FY 2016 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

28 Jan 2015

Appropriation -----	FY 2016 Base -----	FY 2016 OCO -----	FY 2016 Total -----
Aircraft Procurement, Air Force	15,657,769	128,900	15,786,669
Missile Procurement, Air Force	2,987,045	289,142	3,276,187
Space Procurement, Air Force	2,584,061		2,584,061
Procurement of Ammunition, Air Force	1,758,843	228,874	1,987,717
Other Procurement, Air Force	18,272,438	3,859,964	22,132,402
Total Department of the Air Force	41,260,156	4,506,880	45,767,036



## UNCLASSIFIED

Department of the Air Force  
 FY 2016 President's Budget  
 Exhibit P-1 FY 2016 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

28 Jan 2015

## Appropriation: Procurement of Ammunition, Air Force

Budget Activity -----	FY 2014 (Base & OCO) -----	FY 2015 Base Enacted -----	FY 2015 OCO Enacted -----	FY 2015 Total Enacted -----
01. Ammunition	865,164	635,261	219,785	855,046
02. Weapons	18,839	24,648		24,648
Total Procurement of Ammunition, Air Force	884,003	659,909	219,785	879,694

## UNCLASSIFIED

Department of the Air Force  
 FY 2016 President's Budget  
 Exhibit P-1 FY 2016 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

28 Jan 2015

Appropriation: Procurement of Ammunition, Air Force

Budget Activity -----	FY 2016 Base -----	FY 2016 OCO -----	FY 2016 Total -----
01. Ammunition	1,698,746	228,874	1,927,620
02. Weapons	60,097		60,097
Total Procurement of Ammunition, Air Force	1,758,843	228,874	1,987,717

## UNCLASSIFIED

Department of the Air Force  
FY 2016 President's Budget  
Exhibit P-1 FY 2016 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

28 Jan 2015

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO) Quantity Cost	FY 2015 Base Enacted Quantity Cost	FY 2015 OCO Enacted Quantity Cost	FY 2015 Total Enacted Quantity Cost	S e c
-----	-----	-----	-----	-----	-----	-----	-----
Budget Activity 01: Ammunition							
-----							
Rockets							
1	Rockets	A	12,914	4,696		4,696	U
Cartridges							
2	Cartridges	A	138,336	128,621	2,469	131,090	U
Bombs							
3	Practice Bombs	A	25,872	30,098		30,098	U
4	General Purpose Bombs	A	241,198	148,614	56,293	204,907	U
5	Massive Ordnance Penetrator (MOP)						U
6	Joint Direct Attack Munition	A	10415 250,469	789 111,400	3544 117,039	4333 228,439	U
Other Items							
7	Cad/Pad	A	35,837	29,989		29,989	U
8	Explosive Ordnance Disposal (EOD)	A	7,531	6,925		6,925	U
9	Spares and Repair Parts	A	499	494		494	U
10	Modifications	A	480	1,610		1,610	U
11	Items Less Than \$5 Million	A	7,353	4,237		4,237	U
Flares							
12	Flares	A	63,634	84,160	19,136	103,296	U
Fuzes							
13	Fuzes	A	81,041	84,417	24,848	109,265	U
Total Ammunition			865,164	635,261	219,785	855,046	

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 28, 2015 at 07:25:38

UNCLASSIFIED

## UNCLASSIFIED

Department of the Air Force  
FY 2016 President's Budget  
Exhibit P-1 FY 2016 President's Budget  
Total Obligational Authority  
(Dollars in Thousands)

28 Jan 2015

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016 Base Quantity	Cost	FY 2016 OCO Quantity	Cost	FY 2016 Total Quantity	Cost	S e c
-----	-----	-----	-----	----	-----	----	-----	----	-
Budget Activity 01: Ammunition									
-----									
Rockets									
1	Rockets	A		23,788			23,788		U
Cartridges									
2	Cartridges	A		131,102		8,371	139,473		U
Bombs									
3	Practice Bombs	A		89,759			89,759		U
4	General Purpose Bombs	A		637,181		17,031	654,212		U
5	Massive Ordnance Penetrator (MOP)			39,690			39,690		U
6	Joint Direct Attack Munition	A	6341	374,688	5953	184,412	12294	559,100	U
Other Items									
7	Cad/Pad	A		58,266			58,266		U
8	Explosive Ordnance Disposal (EOD)	A		5,612			5,612		U
9	Spares and Repair Parts	A		103			103		U
10	Modifications	A		1,102			1,102		U
11	Items Less Than \$5 Million	A		3,044			3,044		U
Flares									
12	Flares	A		120,935		11,064	131,999		U
Fuzes									
13	Fuzes	A		213,476		7,996	221,472		U
Total Ammunition				1,698,746		228,874	1,927,620		

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 28, 2015 at 07:25:38

UNCLASSIFIED

## UNCLASSIFIED

Department of the Air Force  
 FY 2016 President's Budget  
 Exhibit P-1 FY 2016 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

28 Jan 2015

Appropriation: 3011F Procurement of Ammunition, Air Force

Line		Ident	FY 2014		FY 2015		FY 2015		FY 2015	S
No	Item Nomenclature	Code	(Base & OCO)		Base Enacted		OCO Enacted		Total Enacted	e
----	-----	-----	Quantity Cost		Quantity Cost		Quantity Cost		Quantity Cost	c
----	-----	-----	-----	----	-----	----	-----	----	-----	-----
Budget Activity 02: Weapons										
-----										
Small Arms										
14	Small Arms	A	18,839		24,648				24,648	U
			-----		-----		-----		-----	
Total Weapons			18,839		24,648				24,648	
			-----		-----		-----		-----	
Total Procurement of Ammunition, Air Force			884,003		659,909		219,785		879,694	

## UNCLASSIFIED

Department of the Air Force  
 FY 2016 President's Budget  
 Exhibit P-1 FY 2016 President's Budget  
 Total Obligational Authority  
 (Dollars in Thousands)

28 Jan 2015

Appropriation: 3011F Procurement of Ammunition, Air Force

Line		Ident	FY 2016		FY 2016		FY 2016	S
No	Item Nomenclature	Code	Base	Cost	OCO	Cost	Total	e
-----	-----	-----	Quantity	-----	Quantity	-----	Quantity	c
Budget Activity 02: Weapons								
-----								
Small Arms								
14	Small Arms	A	60,097				60,097	U
			-----		-----		-----	
Total Weapons			60,097				60,097	
			-----		-----		-----	
Total Procurement of Ammunition, Air Force			1,758,843		228,874		1,987,717	

UNCLASSIFIED

Air Force • President's Budget Submission FY 2016 • Procurement

Line Item Table of Contents (by Appropriation then Line Number)

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

Line #	BA	BSA	Line Item Number	Line Item Title	Page
1	01	11	351010	Rockets.....	Volume 1 - 1
2	01	12	352010	Cartridges.....	Volume 1 - 11
3	01	13	353010	Practice Bombs.....	Volume 1 - 43
4	01	13	353020	General Purpose Bombs.....	Volume 1 - 51
5	01	11	353190	MASSIVE ORDNANCE PENETRATOR (MOP).....	Volume 1 - 69
6	01	13	353620	JOINT DIRECT ATTACK MUNITION.....	Volume 1 - 73
7	01	15	355100	CAD/PAD.....	Volume 1 - 85
8	01	15	355450	Explosive Ordnance Disposal (EOD).....	Volume 1 - 89
9	01	15	355900	SPARES AND REPAIR PARTS.....	Volume 1 - 95
10	01	15	355970	MODIFICATIONS.....	Volume 1 - 99
11	01	15	355990	ITEMS LESS THAN \$5 MILLION.....	Volume 1 - 101
12	01	16	356010	FLARES.....	Volume 1 - 105
13	01	18	356120	Fuzes.....	Volume 1 - 121

UNCLASSIFIED

UNCLASSIFIED

Air Force • President's Budget Submission FY 2016 • Procurement

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

Line #	BA	BSA	Line Item Number	Line Item Title	Page
14	02	01	357010	SMALL ARMS.....	Volume 1 - 133



**UNCLASSIFIED**

Air Force • President's Budget Submission FY 2016 • Procurement

**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 - 85
Cartridges	352010	2	01	12.....	Volume 1 - 11
Explosive Ordnance Disposal (EOD)	355450	8	01	15.....	Volume 1 - 89
FLARES	356010	12	01	16.....	Volume 1 - 105
Fuzes	356120	13	01	18.....	Volume 1 - 121
General Purpose Bombs	353020	4	01	13.....	Volume 1 - 51
ITEMS LESS THAN \$5 MILLION	355990	11	01	15.....	Volume 1 - 101
JOINT DIRECT ATTACK MUNITION	353620	6	01	13.....	Volume 1 - 73
MASSIVE ORDNANCE PENETRATOR (MOP)	353190	5	01	11.....	Volume 1 - 69
MODIFICATIONS	355970	10	01	15.....	Volume 1 - 99
Practice Bombs	353010	3	01	13.....	Volume 1 - 43
Rockets	351010	1	01	11.....	Volume 1 - 1
SMALL ARMS	357010	14	02	01.....	Volume 1 - 133
SPARES AND REPAIR PARTS	355900	9	01	15.....	Volume 1 - 95

**UNCLASSIFIED**

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

# UNCLASSIFIED

## ACRONYMS

### ***GENERAL ACRONYMS***

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
EWASIP	- Electronic Warfare Avionics Integration Support Facility
FLIR	- Forward Looking Infra Red
FOT&E	- Follow-on Test and Evaluation

UNCLASSIFIED

## UNCLASSIFIED

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
GPS	- Global Positioning System
GSE	- Ground Support Equipment
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	- Materiel Acquisition Integrated System
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
OPF	- 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
PMC	- Procurement Method Code
PNO	- Acquisition Program Number (MDAP Codes)
PR	- Purchase Request
PRCP	- Program Resource Collection Process
PTT	- Part Task Trainer
PY	- Prior Year
R&M	- Reliability and Maintainability
RAA	- Required Asset Availability
RDT&E	- Research, Development, Test and Evaluation

UNCLASSIFIED

## UNCLASSIFIED

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
WMP	- War Mobilization Plan
WRM	- War Reserve Material
WST	- Weapon System Trainer
UAV	- Unmanned Aerial Vehicle
UHF	- Ultra High Frequency
USA	- United States of America
VHSIC	- Very High Speed Integrated Circuit

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

11 WING	- 11th Support Wing
ACC	- Air Combat Command
AETC	- Air Education & Training Command
AFCAO	- Air Force Computer Acquisition Office
AFCESA	- Air Force Civil Engineering Support Agency
AFCIC	- AF Communications & Information Center
AFCSC	- Air Force Cryptologic Service Center
AFESC	- Air Force Engineering Services Center
AFGWC	- Air Force Global Weather Central
AFIT	- Air Force Institute of Technology
AFLCMC	- Air Force Life Cycle Management Center
AFMC	- Air Force Materiel Command
AFMETCAL	- Air Force Metrology and Calibration Office
AFMLO	- Air Force Medical Logistics Office
AFNEWS	- Air Force Information & News Service Center
AFOSI	- Air Force Office of Special Investigation

UNCLASSIFIED

## UNCLASSIFIED

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
USAFE	- United States Air Force Europe
USCENTCOM	- United States Central Command
USEUCOM	- United States European Command
USMC	- United States Marine Corps

UNCLASSIFIED

## UNCLASSIFIED

USSTRATCOM - United States Strategic Command  
WPAFB - Wright-Patterson AFB, OH

### ***CONTRACT METHOD / TYPE ACRONYMS***

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

### ***CONTRACTED BY ACRONYMS***

11 WING - 11th Support Wing, Washington, DC  
ACC - Air Combat Command, Langley AFB, VA  
AEDC - Arnold Engineering Development Center, Arnold AFB, TN  
AAC - Air Armament Center, Eglin AFB, FL  
AEDC - Arnold Engineering Development Center, Arnold AFB, TN

UNCLASSIFIED

## UNCLASSIFIED

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

### ***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

UNCLASSIFIED



**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force									<b>Date:</b> February 2015			
<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>					<b>Other Related Program Elements:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	12.914	4.696	23.788	-	23.788	19.298	17.499	13.649	13.907	-	105.751
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	12.914	4.696	23.788	-	23.788	19.298	17.499	13.649	13.907	-	105.751
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>12.914</b>	<b>4.696</b>	<b>23.788</b>	-	<b>23.788</b>	<b>19.298</b>	<b>17.499</b>	<b>13.649</b>	<b>13.907</b>	-	<b>105.751</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> FY2014 funding includes \$.326M appropriated for Overseas Contingency Operations.</p> <p>The Air Force primarily uses rockets 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 this munition 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 either high or low speed aircraft.</p> <p>- 2.75 Inch Rocket Motor (HA07): A single-stage, solid grained rocket motor used to propel 2.75 Inch Illum Warhead (H812), 2.75 Inch Rocket Flares (HA06), 2.75 Inch WP Warhead (H855), and 2.75 Inch Signature Practice Warhead (H872) to their targets. The 2.75 Inch Rocket is used primarily to mark target locations for other aircraft. 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.</p> <p>- 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. No FY2016 funding requested. FY2014 funding includes \$.326M appropriated for Overseas Contingency Operations.</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>PEs associated with this P-1 Line are 0207599F and 0208030F.</p> <p>The FY2016 funding request was reduced by \$10.329 million to account for the availability of prior execution balances.</p>												

**UNCLASSIFIED**

Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force		Date: February 2015
<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
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
<div></div>		

# UNCLASSIFIED

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force						<b>Date:</b> February 2015		
<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>			<b>Other Related Program Elements:</b>		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
(H855) 2.75 IN WHD, WP SMOKE	P-5, P-5a		- / -	- / 8.114	- / -	- / 9.788	- / -	- / 9.788
(HA06) WARHEAD, 2.75 ILLUM	P-40a	A	- / -	- / -	2,101 / 3.814	7,629 / 14.000	- / -	7,629 / 14.000
(HA07) 2.75 IN ROCKET MOTOR	P-5, P-5a		- / -	- / 4.800	- / -	- / -	- / -	- / -
(H149) LAUNCHER, LAU-131A	P-40a	A	- / 0.000	- / -	84 / 0.882	- / -	- / -	- / -
<b>Total Gross/Weapon System Cost</b>			- / -	- / 12.914	- / 4.696	- / 23.788	- / -	- / 23.788
*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 add due to rounding.								
<p><b>Justification:</b> FY2016 purchases rockets 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 this munition from reusable pods carried on aircraft pylons.</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>								

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Air Force													<b>Date:</b> February 2015						
<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> - / (H855) 2.75 IN WHD, WP SMOKE						
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016 Base</b>		<b>FY 2016 OCO</b>		<b>FY 2016 Total</b>					
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		8.114		-		9.788		-		9.788					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P1) <i>(\$ in Millions)</i>				-		8.114		-		9.788		-		9.788					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>				-		<b>8.114</b>		-		<b>9.788</b>		-		<b>9.788</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 add, due to rounding.																			
<b>Cost Elements</b>		<b>Prior Years</b>			<b>FY 2014</b>			<b>FY 2015</b>			<b>FY 2016 Base</b>			<b>FY 2016 OCO</b>			<b>FY 2016 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																			
2.75 WARHEAD WP SMOKE - H855 <sup>(†)</sup>		-	-	-	411.83	19,702	8.114	-	-	-	404.99	24,168	9.788	-	-	-	405.00	24,168	9.788
<i>Subtotal: Recurring Cost</i>		-	-	-	-	-	8.114	-	-	-	-	-	9.788	-	-	-	-	-	9.788
<i>Subtotal: Hardware - Hardware End Item Cost</i>		-	-	-	-	-	8.114	-	-	-	-	-	9.788	-	-	-	-	-	9.788
<b>Gross/Weapon System Cost</b>		-	-	-	-	-	<b>8.114</b>	-	-	-	-	-	<b>9.788</b>	-	-	-	-	-	<b>9.788</b>
<b>Remarks:</b> 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																			

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11				P-1 Line Item Number / Title: 351010 / Rockets				Item Number / Title [DODIC]: - / (H855) 2.75 IN WHD, WP SMOKE				
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		2014	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Oct 2015	Sep 2016	19,702	411.84	Y		
2.75 WARHEAD WP SMOKE - H855		2016	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Jun 2016	Aug 2017	24,168	405.00	Y		

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11								P-1 Line Item Number / Title: 351010 / Rockets							Aggregated Items Title: (HA06) WARHEAD, 2.75 ILLUM				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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	1,835.00	7,629	14.000	-	-	-	1,835.10	7,629	14.000	
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	3.814	-	-	14.000	-	-	-	-	-	14.000	
Total			-	-	-	-	-	-	-	-	3.814	-	-	14.000	-	-	-	-	-	14.000	

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11						P-1 Line Item Number / Title: 351010 / Rockets						Item Number / Title [DODIC]: - / (HA07) 2.75 IN ROCKET MOTOR						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		4.800		-		-		-		-				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				-		4.800		-		-		-		-				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				-		4.800		-		-		-		-				
(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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 ROCKET MOTOR MK66 MOD 2 - HA07 <sup>(†)</sup>	-	-	-	465.03	10,322	4.800	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	-	-	-	4.800	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	4.800	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost	-	-	-	-	-	4.800	-	-	-	-	-	-	-	-	-	-	-	
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 and expectations, (typically, Army, Navy and Foreign Military Sales), per ordering period.																		
Costs, including overhead and production engineering, are developed using a total volume matrix, with high, medium and low total quantity ranges.																		
<sup>(†)</sup> indicates the presence of a P-5a																		

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11				P-1 Line Item Number / Title: 351010 / Rockets				Item Number / Title [DODIC]: - / (HA07) 2.75 IN ROCKET MOTOR				
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 ROCKET MOTOR MK66 MOD 2 - HA07		2014	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Aug 2014	Aug 2016	10,322	465.03	Y		

--	--	--	--	--	--	--	--	--	--	--	--	--



UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
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)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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	A		-	-	0.000	-	-	-	10,500.00	84	0.882	-	-	-	-	-	-	-	-		
Subtotal: Uncategorized			-	-	0.000	-	-	-	-	-	0.882	-	-	-	-	-	-	-	-		
Total			-	-	0.000	-	-	-	-	-	0.882	-	-	-	-	-	-	-	-		

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force									<b>Date:</b> February 2015			
<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>					<b>Other Related Program Elements:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	138.336	131.090	131.102	8.371	139.473	172.815	126.932	125.940	132.799	-	967.385
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	-	138.336	131.090	131.102	8.371	139.473	172.815	126.932	125.940	132.799	-	967.385
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>138.336</b>	<b>131.090</b>	<b>131.102</b>	<b>8.371</b>	<b>139.473</b>	<b>172.815</b>	<b>126.932</b>	<b>125.940</b>	<b>132.799</b>	-	<b>967.385</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>  FY2014 funding includes \$17.634M appropriated for Overseas Contingency Operations.  FY2015 funding includes \$2.469 appropriated for Overseas Contingency Operations.  FY2016 funding includes \$8.371 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>- 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.</li> <li>- 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.</li> <li>- 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. FY2014 funding totals include \$0.763M appropriated for Overseas Contingency Operations. FY2015 funding totals include \$1.039M appropriated for Overseas Contingency Operations. FY2016 funding totals include \$8.371 requested for Overseas Contingency Operations.</li> <li>- 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.</li> <li>- 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.</li> </ul>												

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force		<b>Date:</b> February 2015
<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>	<b>Other Related Program Elements:</b>
<ul style="list-style-type: none"> <li>- 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.</li> <li>- 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. FY2014 funding totals include \$0.107M requested for Overseas Contingency Operations. No FY2016 funding is requested.</li> <li>- 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.</li> <li>- BBU-35 Impulse Cartridge (MG62): Deploys countermeasure chaff and ignites flares from the aircraft dispenser. Applicable to the M206 Countermeasure Flare.</li> <li>- 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.</li> <li>- Items Less Than Five Million Dollars: All items have an annual procurement of less than \$5,000,000 and are Code A. FY2015 funding totals include \$1.123 appropriated for Overseas Contingency Operations.</li> </ul> <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>		

**UNCLASSIFIED**

Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12: Cartridges				P-1 Line Item Number / Title: 352010 / Cartridges				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
(A143) 7.62MM BALL LINKED (M80)	P-5, P-5a		- / -	- / 6.000	- / 5.000	- / 5.000	- / -	- / 5.000
(A978) CTG, 25MM, TP (PGU-23/U)	P-5, P-5a		- / -	- / 8.000	- / -	- / 2.412	- / -	- / 2.412
(AA22) 20MM PGU-28A/B SEMI-AP, HEI	P-5, P-5a		- / -	- / 15.277	- / 3.968	- / 5.466	- / 8.371	- / 13.837
(AA24) 20MM, TP PGU-27A/B	P-5, P-5a		- / -	- / 20.505	- / 24.482	- / 12.348	- / -	- / 12.348
5.56 MM FRANG (AA40)	P-40a	A	- / -	24,390,243 / 10.000	18,181,818 / 8.000	17,777,777 / 8.000	- / -	17,777,777 / 8.000
(AB57) 5.56MM BALL, LEAD FREE, CLIPPED	P-5, P-5a		- / -	- / 8.000	- / 7.000	- / 5.548	- / -	- / 5.548
25MM PGU-48/B	P-40a	A	- / -	- / -	- / -	- / 12.000	- / -	- / 12.000
(B116) 30MM PGU-15/B, TP	P-5, P-5a		- / -	- / 16.745	- / 32.250	- / 27.043	- / -	- / 27.043
(MG62) BBU-35/B IMPULSE CARTRIDGE	P-40a	A	- / -	3,333,333 / 8.000	2,650,403 / 6.573	3,170,800 / 7.927	- / -	3,170,800 / 7.927
(SS27) BBU-48/B IMPULSE CARTRIDGE	P-40a	A	- / -	543,478 / 5.000	538,213 / 5.000	532,481 / 5.000	- / -	532,481 / 5.000
(A014) CTG, 12 GA SHOTGUN, 7-1/2 PLASTIC	P-40a	A	- / -	17,857 / 0.010	35,714 / 0.010	- / -	- / -	- / -
(A017) CTG, 12 GA BUCKSHOT	P-40a	A	- / -	- / -	32,258 / 0.010	32,258 / 0.010	- / -	32,258 / 0.010
(A062) CTG, 5.56MM BALL M855 LINKED	P-40a	A	- / -	- / -	2,500,000 / 0.750	6,666,667 / 2.000	- / -	6,666,667 / 2.000
(A075) CTG 5.56MM BLANK SAW LINKED	P-40a	A	- / -	77,272 / 0.017	- / -	- / -	- / -	- / -
(A080) CTG, 5.56MM BLANK M200	P-40a	A	- / -	1,287,500 / 0.206	- / -	1,764,705 / 0.300	- / -	1,764,705 / 0.300
(A091) CTG, .22 CAL LONG RIFLE	P-40a	A	- / -	937,500 / 0.150	- / -	382,353 / 0.065	- / -	382,353 / 0.065
(A111) CTG, 7.62MM BLANK M82 LINKED	P-40a	A	- / -	73,170 / 0.030	- / -	- / -	- / -	- / -
(A131) CTG, 7.62MM BALL 4-1 LINKED	P-40a	A	- / -	1,639,344 / 1.000	1,724,137 / 1.000	1,293,103 / 0.750	- / -	1,293,103 / 0.750
(A164) CTG, 7.62MM LINKED	P-40a	A	- / -	1,960,784 / 1.000	1,886,792 / 1.000	3,703,703 / 2.000	- / -	3,703,703 / 2.000
(A246) CTG, .30 CAL BALL BULK	P-40a	A	- / -	- / -	104,167 / 0.025	- / -	- / -	- / -
(A257) CTG, 7.62MM 9-1 DIM TRACER	P-40a	A	- / -	- / -	- / -	377,358 / 0.200	- / -	377,358 / 0.200
(A363) 9MM BALL NATO XM882 PISTOL	P-40a	A	- / -	11,904,762 / 2.500	10,526,316 / 2.000	5,000,000 / 1.000	- / -	5,000,000 / 1.000
(A403) CTG, .38 CAL SP BLANK	P-40a	A	- / -	45,614 / 0.026	- / -	- / -	- / -	- / -
(A404) CTG, .38 CAL SP BALL WADCUTTER	P-40a	A	- / -	- / -	11,627 / 0.010	11,494 / 0.010	- / -	11,494 / 0.010
(A475) CTG, CAL .45 BALL M1911	P-40a	A	- / -	163,492 / 0.103	- / -	- / -	- / -	- / -
(A482) CTG CAL .45 BALL WADCUTTER	P-40a	A	- / -	392,156 / 0.200	392,156 / 0.200	384,615 / 0.200	- / -	384,615 / 0.200
(A483) CTG CAL .45 BALL M1911 MTCHGRD	P-40a	A	- / -	161,290 / 0.100	735,294 / 0.250	147,059 / 0.050	- / -	147,059 / 0.050
(A552) CTG, .50 CAL BALL SINGLE ROUND, M33	P-40a	A	- / -	159,900 / 0.323	88,496 / 0.200	243,902 / 0.500	- / -	243,902 / 0.500
(A555) CTG, CAL .50 BALL M2 LINKED	P-40a	A	- / -	2,040,816 / 4.000	1,132,075 / 3.000	1,276,595 / 3.000	- / -	1,276,595 / 3.000
(A557) CTG, CAL .50 BALL/TRACER/LINKED M2/M9	P-40a	A	- / -	1,243,781 / 2.500	947,867 / 2.000	980,392 / 2.000	- / -	980,392 / 2.000
(A598) CTG CAL.50 BLNK CRMPD W/M9 LNK	P-40a	A	- / -	183,824 / 0.250	- / -	- / -	- / -	- / -
(A606) CTG, CAL.50 API MK211 MOD 0	P-40a	A	- / -	1,850 / 0.020	- / -	64,338 / 0.700	- / -	64,338 / 0.700
(A607) CTG, .50 CAL ARMOR PIERCING INCENDIARY	P-40a	A	- / -	126,903 / 1.000	326,633 / 2.600	87,500 / 0.700	- / -	87,500 / 0.700
(AA01) CTG 5.56MM AP M995 LKD	P-40a	A	- / -	23,560 / 0.045	- / -	- / -	- / -	- / -
(AA02) CTG 5.56MM AP/TR M995/M856 4-1	P-40a	A	- / -	351,898 / 0.834	138,818 / 0.329	- / -	- / -	- / -

**UNCLASSIFIED**

Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12: Cartridges				P-1 Line Item Number / Title: 352010 / Cartridges				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
(AA03) CTG. 7.62 M993 AP	P-40a	A	- / -	10,563 / 0.030	- / -	34,482 / 0.100	- / -	34,482 / 0.100
(AA04) CTG. 7.62MM 4 AP M9331/1TR M62 W/LK M13	P-40a	A	- / -	- / -	- / -	12,494 / 0.300	- / -	12,494 / 0.300
(AA11) CTG. 7.62 NATO M118 SPEC BALL	P-40a	A	- / -	869,565 / 0.600	2,941,176 / 2.000	746,269 / 0.500	- / -	746,269 / 0.500
(AA16) 9 MILLIME CARTRIDGE FRANG	P-40a	A	- / -	8,620,689 / 2.500	10,344,828 / 3.000	10,000,000 / 3.000	- / -	10,000,000 / 3.000
(AA50) .50 CAL DIM TRACER	P-40a	A	- / -	371,333 / 2.228	- / -	- / -	- / -	- / -
(AA51) 12 GA NON-LETHAL PT-CONT	P-40a	A	- / -	110,628 / 0.229	50,952 / 0.107	94,339 / 0.200	- / -	94,339 / 0.200
(AA52) 12 GA NON-LETHAL CROWD	P-40a	A	- / -	208,771 / 0.476	103,030 / 0.238	85,470 / 0.200	- / -	85,470 / 0.200
(AB09) 5.56 BLUE MARKING CARTRIDGE	P-40a	A	- / -	1,449,275 / 1.000	563,380 / 0.400	1,000,000 / 0.700	- / -	1,000,000 / 0.700
(AB10) 5.56 RED MARKING CARTRIDGES	P-40a	A	- / -	1,449,275 / 1.000	633,802 / 0.450	1,000,000 / 0.700	- / -	1,000,000 / 0.700
(AB13) 9MM BLUE MARKING CARTRIDGE	P-40a	A	- / -	819,672 / 0.500	735,294 / 0.500	806,452 / 0.500	- / -	806,452 / 0.500
(AB14) 9M RED MARKING CARTRIDGE	P-40a	A	- / -	819,672 / 0.500	735,294 / 0.500	806,452 / 0.500	- / -	806,452 / 0.500
(AB16) 5.56 BLUE LINKED MARKING CART	P-40a	A	- / -	609,756 / 0.500	- / -	- / -	- / -	- / -
(AB17) 5.56 RED LINKED MARKING CART	P-40a	A	- / -	609,756 / 0.500	- / -	- / -	- / -	- / -
(AB39) 7.62MM SPECIAL BALL, LONG RANGE	P-40a	A	- / -	31,250 / 1.000	62,500 / 2.000	61,576 / 2.000	- / -	61,576 / 2.000
(AB56) 5.56MM M855A1 LINKED LEAD FREE CART	P-40a	A	- / -	- / -	2,777,778 / 1.000	2,777,778 / 1.000	- / -	2,777,778 / 1.000
(AB46) 5.56MM SINGLE ROUND DUMMY	P-40a	A	- / -	- / -	312,500 / 0.125	- / -	- / -	- / -
(AB47) 7.62MM DUMMY	P-40a	A	- / -	- / -	200,000 / 0.070	- / -	- / -	- / -
(AB67) 5.56MM PRACTICE SINGLE ROUND	P-40a	A	- / -	- / -	- / -	1,851,851 / 2.500	- / -	1,851,851 / 2.500
(AB48) .50 CAL SINGLE DUMMY CART	P-40a	A	- / -	- / -	114,285 / 0.040	- / -	- / -	- / -
(AB72) CTG, 7.62MM SINGLE ROUND BLANK (was A112)	P-40a	A	- / -	205,479 / 0.150	208,333 / 0.075	- / -	- / -	- / -
(AY04) CTG. BIRDSCARE, 12 GAGE,PGU-26P	P-40a	A	- / -	46,226 / 0.049	- / -	- / -	- / -	- / -
(B519) CARTRIDGE, 40MM PRACTICE M781	P-40a	A	- / -	61,475 / 0.300	409,836 / 2.000	- / -	- / -	- / -
(B472) 40MM DUMMY M385 CART	P-40a	A	- / -	1,339 / 0.050	- / -	- / -	- / -	- / -
(B535) 40MM SWS M583	P-40a	A	- / -	1,429 / 0.063	22,451 / 1.000	- / -	- / -	- / -
(B576) CTG, 40MM PRACTICE, LINKED, HIGH VELOCITY	P-40a	A	- / -	208,026 / 3.836	108,401 / 2.000	101,010 / 2.000	- / -	101,010 / 2.000
(BA06) 40MM M385A1 PRACTICE CART	P-40a	A	- / -	30,142 / 0.233	- / -	- / -	- / -	- / -
AIR FORCE SHOOTING TEAM	P-40a	A	- / -	- / 0.175	- / 0.175	- / 0.175	- / -	- / 0.175
(BA13) 40MM CROWD CONTROL CART	P-40a	A	- / -	6,176 / 0.110	- / -	- / -	- / -	- / -
(3W37) CHAFF, RR-188	P-40a	A	- / -	- / -	- / -	593,471 / 2.000	- / -	593,471 / 2.000
(JN31) CU-168 SQUIB	P-40a	A	- / -	- / -	833 / 0.500	1,666 / 1.000	- / -	1,666 / 1.000
(MG11) CTG,IMPULSE,BBU-36/B	P-40a	A	- / -	746,130 / 1.254	1,117,647 / 1.900	555,556 / 2.000	- / -	555,556 / 2.000
(MG62) CTG, IMPULSE BBU-35/B	P-40a	A	- / -	538,607 / 1.277	668,741 / 1.585	- / -	- / -	- / -
(SS27) CTG, IMPLUSE, BBU-48/B	P-40a	A	- / -	100,429 / 0.936	109,566 / 0.995	- / -	- / -	- / -
(WA83) CCU-136	P-40a	A	- / -	- / -	1,408 / 0.005	1,392 / 0.005	- / -	1,392 / 0.005
(WB24) CCU-145	P-40a	A	- / -	- / -	5,263 / 0.025	5,230 / 0.025	- / -	5,230 / 0.025

**UNCLASSIFIED**

Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12: Cartridges				P-1 Line Item Number / Title: 352010 / Cartridges				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
(WB33) CTG, IMP ARD 446-1B	P-40a	A	- / -	- / -	- / -	109,756 / 0.900	- / -	109,756 / 0.900
(M189) ARD 863 IMPULSE CART	P-40a	A	- / 0.000	- / -	- / -	- / -	- / -	- / -
(M190) IMPULSE CARTRIDGE MK1 MOD1	P-40a	A	- / 0.000	- / -	- / -	- / -	- / -	- / -
(M943) MK107 IMPULSE CARTRIDGE	P-40a	A	- / -	- / -	16,253 / 1.900	- / -	- / -	- / -
(MT40) BBU-46 SQUIB, ELECTRIC	P-40a	A	- / -	12,661 / 1.000	6,326 / 0.500	7,110 / 0.568	- / -	7,110 / 0.568
(SS44) BBU-63/B IMPULSE CARTRIDGE	P-40a	A	- / -	5,736 / 3.000	650 / 0.343	5,611 / 3.000	- / -	5,611 / 3.000
(SY16) RR-180 CHAFF CARTRIDGE	P-40a	A	- / -	318,133 / 3.000	172,860 / 2.000	260,191 / 3.000	- / -	260,191 / 3.000
Total Gross/Weapon System Cost			- / -	- / 138.336	- / 131.090	- / 131.102	- / 8.371	- / 139.473
*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 add due to rounding.								

**Justification:**

FY2016 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.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Air Force														<b>Date:</b> February 2015					
<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)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016 Base</b>		<b>FY 2016 OCO</b>		<b>FY 2016 Total</b>					
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		6.000		5.000		5.000		-		5.000					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P1) <i>(\$ in Millions)</i>				-		6.000		5.000		5.000		-		5.000					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>				-		<b>6.000</b>		<b>5.000</b>		<b>5.000</b>		-		<b>5.000</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 add, due to rounding.																			
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2014</b>			<b>FY 2015</b>			<b>FY 2016 Base</b>			<b>FY 2016 OCO</b>			<b>FY 2016 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																			
7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT <sup>(†)</sup>	-	-	-	0.48	11,990,760	5.756	0.53	8,740,286	4.632	0.53	9,042,049	4.792	-	-	-	0.53	9,042,049	4.792	
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	5.756	-	-	4.632	-	-	4.792	-	-	-	-	-	4.792	
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	5.756	-	-	4.632	-	-	4.792	-	-	-	-	-	4.792	
Support - Support End Item Cost																			
PRODUCTION ENGINEERING	-	-	-	-	-	0.244	-	-	0.287	-	-	0.205	-	-	-	-	-	0.205	
ACCEPTANCE TESTING	-	-	-	-	-	-	-	-	0.075	-	-	-	-	-	-	-	-	-	
QUALITY ASSURANCE	-	-	-	-	-	-	-	-	0.006	-	-	0.003	-	-	-	-	-	0.003	
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.244	-	-	0.368	-	-	0.208	-	-	-	-	-	0.208	
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>6.000</b>	-	-	<b>5.000</b>	-	-	<b>5.000</b>	-	-	-	-	-	<b>5.000</b>	
<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).																			



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Air Force		<b>Date:</b> February 2015
<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)
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>

(†) indicates the presence of a P-5a

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2016 Air Force								<b>Date:</b> February 2015				
<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		2014	ALLIANT TECH (LCAAP) / INDEPENDENCE, MO	MIPR	AFLCMC Hill AFB	Jun 2014	Jan 2015	11,990,760	0.48	Y		
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	9,042,049	0.53	Y		

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force											Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12						P-1 Line Item Number / Title: 352010 / Cartridges						Item Number / Title [DODIC]: - / (A978) CTG, 25MM, TP (PGU-23/U)							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total					
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		8.000		-		2.412		-		2.412					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P1) <i>(\$ in Millions)</i>				-		8.000		-		2.412		-		2.412					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Total Obligation Authority <i>(\$ in Millions)</i>				-		8.000		-		2.412		-		2.412					
(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 add, due to rounding.																			
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>		-	-	-	25.24	310,242	7.831	-	-	-	19.00	113,973	2.165	-	-	-	19.00	113,973	2.165
PALLET MK3-0		-	-	-	238.65	166	0.040	-	-	-	176.00	61	0.011	-	-	-	176.00	61	0.011
Subtotal: Recurring Cost		-	-	-	-	-	7.870	-	-	-	-	-	2.176	-	-	-	-	-	2.176
Subtotal: Hardware - Hardware End Item Cost		-	-	-	-	-	7.870	-	-	-	-	-	2.176	-	-	-	-	-	2.176
Support - Support End Item Cost																			
ACCEPTANCE TESTING		-	-	-	-	-	0.052	-	-	-	-	-	0.059	-	-	-	-	-	0.059
QUALITY ASSURANCE		-	-	-	-	-	0.006	-	-	-	-	-	0.003	-	-	-	-	-	0.003
FIRST ARTICLE TEST		-	-	-	-	-	0.072	-	-	-	-	-	0.172	-	-	-	-	-	0.172
PALLET TESTING		-	-	-	-	-	-	-	-	-	-	-	0.002	-	-	-	-	-	0.002
Subtotal: Support - Support End Item Cost		-	-	-	-	-	0.130	-	-	-	-	-	0.236	-	-	-	-	-	0.236
Gross/Weapon System Cost		-	-	-	-	-	8.000	-	-	-	-	-	2.412	-	-	-	-	-	2.412
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, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack the Air Force order. Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).																			
The load, assemble and pack quantity is the number of completed rounds to be delivered into the AF inventory.																			

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Item Number / Title [DODIC]: - / (A978) CTG, 25MM, TP (PGU-23/U)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<div>(t) indicates the presence of a P-5a</div>		

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2016 Air Force								<b>Date:</b> February 2015				
<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> - / (A978) CTG, 25MM, TP (PGU-23/U)				
<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		2014	GENERAL DYNAMICS ORD & TAC SYS / MARION, IL	MIPR	AFLCMC Hill AFB	Jul 2014	May 2015	310,242	25.24	Y		
LOAD, ASSEMBLE, PACK		2016	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Mar 2016	Jun 2017	113,973	19.00	Y		

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force											Date: February 2015							
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) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		15.277		3.968		5.466		8.371		13.837				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P1) (\$ in Millions)				-		15.277		3.968		5.466		8.371		13.837				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		15.277		3.968		5.466		8.371		13.837				
(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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>	-	-	-	20.00	757,023	15.140	23.00	160,721	3.697	25.00	213,186	5.330	25.00	332,136	8.303	25.00	545,322	13.633
BOX, METAL M548	-	-	-	34.00	3,104	0.106	40.00	660	0.026	41.00	874	0.036	41.00	1,363	0.056	41.00	2,237	0.092
PALLET MK3-0	-	-	-	158.00	151	0.024	172.47	32	0.006	180.00	42	0.008	180.00	65	0.012	180.00	107	0.019
Subtotal: Recurring Cost	-	-	-	-	-	15.270	-	-	3.728	-	-	5.373	-	-	8.371	-	-	13.744
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	15.270	-	-	3.728	-	-	5.373	-	-	8.371	-	-	13.744
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.007	-	-	-	-	-	0.008	-	-	-	-	-	0.008
FIRST ARTICLE TESTING	-	-	-	-	-	-	-	-	0.240	-	-	0.085	-	-	-	-	-	0.085
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.007	-	-	0.240	-	-	0.093	-	-	-	-	-	0.093
Gross/Weapon System Cost	-	-	-	-	-	15.277	-	-	3.968	-	-	5.466	-	-	8.371	-	-	13.837
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).																		

UNCLASSIFIED

<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Air Force		<b>Date:</b> February 2015
<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) :		<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>		

**UNCLASSIFIED**

Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12			P-1 Line Item Number / Title: 352010 / Cartridges					Item Number / Title [DODIC]: - / (AA22) 20MM PGU-28A/B SEMI-AP, HEI				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK		2014	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND MESA, AZ	MIPR	AFLCMC Hill AFB	Sep 2014	Sep 2015	757,023	20.00	Y		
LOAD, ASSEMBLE, PACK		2015	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Mar 2015	Mar 2016	160,721	23.00	Y		
LOAD, ASSEMBLE, PACK - Mar 2016		2016	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Mar 2016	Mar 2017	213,186	25.00	Y		
LOAD, ASSEMBLE, PACK - Mar 2016	✓	2016	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Mar 2016	Mar 2017	332,136	25.00	Y		



**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force											Date: February 2015								
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) :								MDAP/MAIS Code:											
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				-		20.505		24.482		12.348		-		12.348					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P1) (\$ in Millions)				-		20.505		24.482		12.348		-		12.348					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				-		20.505		24.482		12.348		-		12.348					
(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 add, due to rounding.																			
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>	-	-	-	9.00	1,372,328	12.351	11.00	2,160,694	23.768	11.00	1,088,957	11.979	-	-	-	11.00	1,088,957	11.979	
BOX METAL M548	-	-	-	34.00	5,626	0.191	40.00	8,859	0.354	40.00	4,465	0.179	-	-	-	40.00	4,465	0.179	
PALLET MK3-0	-	-	-	158.00	274	0.043	172.00	432	0.074	182.90	218	0.040	-	-	-	182.90	218	0.040	
Subtotal: Recurring Cost	-	-	-	-	-	12.586	-	-	24.196	-	-	12.197	-	-	-	-	-	12.197	
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	12.586	-	-	24.196	-	-	12.197	-	-	-	-	-	12.197	
Support - Support End Item Cost																			
QUALITY ASSURANCE	-	-	-	-	-	7.914	-	-	0.011	-	-	0.015	-	-	-	-	-	0.015	
FIRST ARTICLE TEST	-	-	-	-	-	-	-	-	0.273	-	-	0.134	-	-	-	-	-	0.134	
ACCEPTANCE TESTING	-	-	-	-	-	0.005	-	-	0.002	-	-	0.002	-	-	-	-	-	0.002	
Subtotal: Support - Support End Item Cost	-	-	-	-	-	7.919	-	-	0.286	-	-	0.151	-	-	-	-	-	0.151	
Gross/Weapon System Cost	-	-	-	-	-	20.505	-	-	24.482	-	-	12.348	-	-	-	-	-	12.348	
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.																			

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Air Force		Date: February 2015
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) :		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>(t) indicates the presence of a P-5a</p>		

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2016 Air Force									<b>Date:</b> February 2015			
<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			
<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		2014	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND PLYMOUTH, MN	MIPR	AFLCMC Hill AFB	Sep 2014	Sep 2015	1,372,328	9.00	Y		
LOAD, ASSEMBLE, PACK		2015	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Mar 2015	Mar 2016	2,160,694	11.00	Y		
LOAD, ASSEMBLE, PACK		2016	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Mar 2016	Mar 2017	1,088,957	11.00	Y		

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	0.41	24,390,243	10.000	0.44	18,181,818	8.000	0.45	17,777,777	8.000	-	-	-	0.45	17,777,777	8.000
Subtotal: Uncategorized			-	-	-	-	-	10.000	-	-	8.000	-	-	8.000	-	-	-	-	-	8.000
Total			-	-	-	-	-	10.000	-	-	8.000	-	-	8.000	-	-	-	-	-	8.000

**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.

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12						P-1 Line Item Number / Title: 352010 / Cartridges						Item Number / Title [DODIC]: - / (AB57) 5.56MM BALL, LEAD FREE, CLIPPED						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-		-		
Gross/Weapon System Cost (\$ in Millions)				-		8.000		7.000		5.548		-		-		5.548		
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-		-		
Net Procurement (P1) (\$ in Millions)				-		8.000		7.000		5.548		-		-		5.548		
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-		-		
Total Obligation Authority (\$ in Millions)				-		8.000		7.000		5.548		-		-		5.548		
(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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>	-	-	-	0.25	30,029,064	7.507	0.40	15,547,203	6.219	0.31	16,413,635	5.088	-	-	-	0.31	16,413,635	5.088
BOX, METAL M2A2	-	-	-	11.00	36,035	0.396	13.21	18,656	0.246	12.00	19,696	0.236	-	-	-	12.00	19,696	0.236
Subtotal: Recurring Cost	-	-	-	-	-	7.904	-	-	6.465	-	-	5.325	-	-	-	-	-	5.325
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	7.904	-	-	6.465	-	-	5.325	-	-	-	-	-	5.325
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.078	-	-	0.376	-	-	0.223	-	-	-	-	-	0.223
ACCEPTANCE TESTING	-	-	-	-	-	0.017	-	-	0.157	-	-	-	-	-	-	-	-	-
QUALITY ASSURANCE	-	-	-	-	-	0.001	-	-	0.002	-	-	-	-	-	-	-	-	-
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.096	-	-	0.535	-	-	0.223	-	-	-	-	-	0.223
Gross/Weapon System Cost	-	-	-	-	-	8.000	-	-	7.000	-	-	5.548	-	-	-	-	-	5.548
(†) indicates the presence of a P-5a																		

**UNCLASSIFIED**

Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12			P-1 Line Item Number / Title: 352010 / Cartridges					Item Number / Title [DODIC]: - / (AB57) 5.56MM BALL, LEAD FREE, CLIPPED				
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		2014	ALLIANT TECH SYS (LCAAP) / INDEPENDENCE, MO	MIPR	AFLCMC Hill AFB	Jun 2014	Nov 2014	30,029,064	0.25	Y		
LOAD, ASSEMBLE, PACK		2015	OLIN AND ALLIANT / INDEPENDENCE, MO AND EAST ALTON, IL	MIPR	AFLCMC Hill AFB	Mar 2015	Aug 2015	15,547,203	0.40	Y		
LOAD, ASSEMBLE, PACK		2016	UNKNOWN / UNKNOQWN	MIPR	AFLCMC Hill AFB	Mar 2016	Mar 2017	16,413,635	0.31	Y		

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
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				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	-	-	-	-	-	-	-	-	12.000	-	-	-	-	-	12.000				
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	-	-	-	12.000	-	-	-	-	-	12.000				
Total			-	-	-	-	-	-	-	-	-	-	-	12.000	-	-	-	-	-	12.000				

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015						
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) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-		-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		16.745		32.250		27.043		-		27.043				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				-		16.745		32.250		27.043		-		27.043				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				-		16.745		32.250		27.043		-		27.043				
(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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>	-	-	-	19.00	865,950	16.453	22.00	1,336,035	29.393	22.00	1,128,123	24.819	-	-	-	22.00	1,128,123	24.819
CONTAINER CNU-332E	-	-	-	-	-	-	498.00	2,405	1.198	487.00	2,030	0.989	-	-	-	487.00	2,030	0.989
TUBE AND STRAP ASSEMBLY	-	-	-	-	-	-	442.00	2,405	1.063	450.00	2,030	0.914	-	-	-	450.00	2,030	0.914
Subtotal: Recurring Cost	-	-	-	-	-	16.453	-	-	31.653	-	-	26.721	-	-	-	-	-	26.721
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	16.453	-	-	31.653	-	-	26.721	-	-	-	-	-	26.721
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.011	-	-	0.006	-	-	0.005	-	-	-	-	-	0.005
ACCEPTANCE TESTING	-	-	-	-	-	0.060	-	-	0.016	-	-	0.066	-	-	-	-	-	0.066
FIRST ARTICLE TEST	-	-	-	-	-	0.221	-	-	0.575	-	-	0.251	-	-	-	-	-	0.251
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.292	-	-	0.597	-	-	0.322	-	-	-	-	-	0.322
Gross/Weapon System Cost	-	-	-	-	-	16.745	-	-	32.250	-	-	27.043	-	-	-	-	-	27.043
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).																		



**UNCLASSIFIED**

LI 352010 - Cartridges  
Air Force

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2016 Air Force								<b>Date:</b> February 2015				
<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		2014	GENERAL DYNAMICS AND ALLIANT TECH / MARION, IL AND MESA, AZ	MIPR	AFLCMC Hill AFB	Aug 2014	May 2015	865,950	19.00	Y		
LOAD,ASSEMBLE,PACK		2015	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Mar 2015	Mar 2016	1,336,035	22.00	Y		
LOAD,ASSEMBLE,PACK		2016	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Mar 2016	Mar 2017	1,128,123	22.00	Y		

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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> (MG62) BBU-35/B IMPULSE CARTRIDGE				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	2.40	3,333,333	8.000	2.48	2,650,403	6.573	2.50	3,170,800	7.927	-	-	-	2.50	3,170,800	7.927
Subtotal: Uncategorized			-	-	-	-	-	8.000	-	-	6.573	-	-	7.927	-	-	-	-	-	7.927
Total			-	-	-	-	-	8.000	-	-	6.573	-	-	7.927	-	-	-	-	-	7.927

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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> (SS27) BBU-48/B IMPULSE CARTRIDGE				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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																								
(SS27) BBU-48/ B IMPULSE CARTRIDGE	A		-	-	-	9.20	543,478	5.000	9.29	538,213	5.000	9.39	532,481	5.000	-	-	-	9.39	532,481	5.000				
Subtotal: Uncategorized			-	-	-	-	-	5.000	-	-	5.000	-	-	5.000	-	-	-	-	-	5.000				
Total			-	-	-	-	-	5.000	-	-	5.000	-	-	5.000	-	-	-	-	-	5.000				

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force</b>															<b>Date:</b> February 2015				
<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)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	0.56	17,857	0.010	0.28	35,714	0.010	-	-	-	-	-	-	-	-	-
(A017) CTG, 12 GA BUCKSHOT	A		-	-	-	-	-	-	0.31	32,258	0.010	0.31	32,258	0.010	-	-	-	0.31	32,258	0.010
(A062) CTG, 5.56MM BALL M855 LINKED	A		-	-	-	-	-	-	0.30	2,500,000	0.750	0.30	6,666,667	2.000	-	-	-	0.30	6,666,667	2.000
(A075) CTG 5.56MM BLANK SAW LINKED	A		-	-	-	0.22	77,272	0.017	-	-	-	-	-	-	-	-	-	-	-	
(A080) CTG, 5.56MM BLANK M200	A		-	-	-	0.16	1,287,500	0.206	-	-	-	0.17	1,764,705	0.300	-	-	-	0.17	1,764,705	0.300
(A091) CTG, .22 CAL LONG RIFLE	A		-	-	-	0.16	937,500	0.150	-	-	-	0.17	382,353	0.065	-	-	-	0.17	382,353	0.065
(A111) CTG, 7.62MM BLANK M82 LINKED	A		-	-	-	0.41	73,170	0.030	-	-	-	-	-	-	-	-	-	-	-	
(A131) CTG, 7.62MM BALL 4-1 LINKED	A		-	-	-	0.61	1,639,344	1.000	0.58	1,724,137	1.000	0.58	1,293,103	0.750	-	-	-	0.58	1,293,103	0.750
(A164) CTG, 7.62MM LINKED	A		-	-	-	0.51	1,960,784	1.000	0.53	1,886,792	1.000	0.54	3,703,703	2.000	-	-	-	0.54	3,703,703	2.000
(A246) CTG, .30 CAL BALL BULK	A		-	-	-	-	-	-	0.24	104,167	0.025	-	-	-	-	-	-	-	-	-
(A257) CTG, 7.62MM 9-1 DIM TRACER	A		-	-	-	-	-	-	-	-	-	0.53	377,358	0.200	-	-	-	0.53	377,358	0.200
(A363) 9MM BALL NATO XM882 PISTOL	A		-	-	-	0.21	11,904,762	2.500	0.19	10,526,316	2.000	0.20	5,000,000	1.000	-	-	-	0.20	5,000,000	1.000
(A403) CTG, .38 CAL SP BLANK	A		-	-	-	0.57	45,614	0.026	-	-	-	-	-	-	-	-	-	-	-	-
(A404) CTG, .38 CAL SP BALL WADCUTTER	A		-	-	-	-	-	-	0.86	11,627	0.010	0.87	11,494	0.010	-	-	-	0.87	11,494	0.010
(A475) CTG, CAL .45 BALL M1911	A		-	-	-	0.63	163,492	0.103	-	-	-	-	-	-	-	-	-	-	-	-
(A482) CTG CAL .45 BALL WADCUTTER	A		-	-	-	0.51	392,156	0.200	0.51	392,156	0.200	0.52	384,615	0.200	-	-	-	0.52	384,615	0.200
(A483) CTG CAL .45 BALL M1911 MTCHGRD	A		-	-	-	0.62	161,290	0.100	0.34	735,294	0.250	0.34	147,059	0.050	-	-	-	0.34	147,059	0.050
(A552) CTG, .50 CAL BALL SINGLE ROUND, M33	A		-	-	-	2.02	159,900	0.323	2.26	88,496	0.200	2.05	243,902	0.500	-	-	-	2.05	243,902	0.500

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force</b>															<b>Date:</b> February 2015				
<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)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
(A555) CTG. CAL .50 BALL M2 LINKED	A		-	-	-	1.96	2,040,816	4.000	2.65	1,132,075	3.000	2.35	1,276,595	3.000	-	-	-	2.35	1,276,595	3.000
(A557) CTG. CAL .50 BALL/TRACER/ LINKED M2/M9	A		-	-	-	2.01	1,243,781	2.500	2.11	947,867	2.000	2.04	980,392	2.000	-	-	-	2.04	980,392	2.000
(A598) CTG CAL.50 BLNK CRMPD W/M9 LNK	A		-	-	-	1.36	183,824	0.250	-	-	-	-	-	-	-	-	-	-	-	-
(A606) CTG. CAL.50 API MK211 MOD 0	A		-	-	-	10.81	1,850	0.020	-	-	-	10.88	64,338	0.700	-	-	-	10.88	64,338	0.700
(A607) CTG. .50 CAL ARMOR PIERCING INCENDIARY	A		-	-	-	7.88	126,903	1.000	7.96	326,633	2.600	8.00	87,500	0.700	-	-	-	8.00	87,500	0.700
(AA01) CTG 5.56MM AP M995 LKD	A		-	-	-	1.91	23,560	0.045	-	-	-	-	-	-	-	-	-	-	-	-
(AA02) CTG 5.56MM AP/TR M995/M856 4-1	A		-	-	-	2.37	351,898	0.834	2.37	138,818	0.329	-	-	-	-	-	-	-	-	-
(AA03) CTG. 7.62 M993 AP	A		-	-	-	2.84	10,563	0.030	-	-	-	2.90	34,482	0.100	-	-	-	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	-	-	-	24.01	12,494	0.300
(AA11) CTG. 7.62 NATO M118 SPEC BALL	A		-	-	-	0.69	869,565	0.600	0.68	2,941,176	2.000	0.67	746,269	0.500	-	-	-	0.67	746,269	0.500
(AA16) 9 MILLIME CARTRIDGE FRANG	A		-	-	-	0.29	8,620,689	2.500	0.29	10,344,828	3.000	0.30	10,000,000	3.000	-	-	-	0.30	10,000,000	3.000
(AA50) .50 CAL DIM TRACER	A		-	-	-	6.00	371,333	2.228	-	-	-	-	-	-	-	-	-	-	-	-
(AA51) 12 GA NON-LETHAL PT-CONT	A		-	-	-	2.07	110,628	0.229	2.10	50,952	0.107	2.12	94,339	0.200	-	-	-	2.12	94,339	0.200
(AA52) 12 GA NON-LETHAL CROWD	A		-	-	-	2.28	208,771	0.476	2.31	103,030	0.238	2.34	85,470	0.200	-	-	-	2.34	85,470	0.200
(AB09) 5.56 BLUE MARKING CARTRIDGE	A		-	-	-	0.69	1,449,275	1.000	0.71	563,380	0.400	0.70	1,000,000	0.700	-	-	-	0.70	1,000,000	0.700
(AB10) 5.56 RED MARKING CARTRIDGES	A		-	-	-	0.69	1,449,275	1.000	0.71	633,802	0.450	0.70	1,000,000	0.700	-	-	-	0.70	1,000,000	0.700
(AB13) 9MM BLUE MARKING CARTRIDGE	A		-	-	-	0.61	819,672	0.500	0.68	735,294	0.500	0.62	806,452	0.500	-	-	-	0.62	806,452	0.500

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force</b>															<b>Date:</b> February 2015				
<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)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
(AB14) 9M RED MARKING CARTRIDGE	A		-	-	-	0.61	819,672	0.500	0.68	735,294	0.500	0.62	806,452	0.500	-	-	-	0.62	806,452	0.500
(AB16) 5.56 BLUE LINKED MARKING CART	A		-	-	-	0.82	609,756	0.500	-	-	-	-	-	-	-	-	-	-	-	-
(AB17) 5.56 RED LINKED MARKING CART	A		-	-	-	0.82	609,756	0.500	-	-	-	-	-	-	-	-	-	-	-	-
(AB39) 7.62MM SPECIAL BALL, LONG RANGE	A		-	-	-	32.00	31,250	1.000	32.00	62,500	2.000	32.48	61,576	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	2,777,778	1.000	-	-	-	0.36	2,777,778	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	-	-	-	-	-	-	-	-	-
(AB67) 5.56MM PRACTICE SINGLE ROUND	A		-	-	-	-	-	-	-	-	-	1.35	1,851,851	2.500	-	-	-	1.35	1,851,851	2.500
(AB48) .50 CAL SINGLE DUMMY CART	A		-	-	-	-	-	-	0.35	114,285	0.040	-	-	-	-	-	-	-	-	-
(AB72) CTG, 7.62MM SINGLE ROUND BLANK (was A112)	A		-	-	-	0.73	205,479	0.150	0.36	208,333	0.075	-	-	-	-	-	-	-	-	-
(AY04) CTG. BIRDSCARE, 12 GAGE,PGU-26P	A		-	-	-	1.06	46,226	0.049	-	-	-	-	-	-	-	-	-	-	-	-
(B519) CARTRIDGE, 40MM PRACTICE M781	A		-	-	-	4.88	61,475	0.300	4.88	409,836	2.000	-	-	-	-	-	-	-	-	-
(B472) 40MM DUMMY M385 CART	A		-	-	-	37.32	1,339	0.050	-	-	-	-	-	-	-	-	-	-	-	-
(B535) 40MM SWS M583	A		-	-	-	44.07	1,429	0.063	44.54	22,451	1.000	-	-	-	-	-	-	-	-	-
(B576) CTG, 40MM PRACTICE, LINKED, HIGH VELOCITY	A		-	-	-	18.44	208,026	3.836	18.45	108,401	2.000	19.80	101,010	2.000	-	-	-	19.80	101,010	2.000
(BA06) 40MM M385A1 PRACTICE CART	A		-	-	-	7.73	30,142	0.233	-	-	-	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force</b>															<b>Date:</b> February 2015				
<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)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
AIR FORCE SHOOTING TEAM	A		-	-	-	-	-	0.175	-	-	0.175	-	-	0.175	-	-	-	-	-	0.175
(BA13) 40MM CROWD CONTROL CART	A		-	-	-	17.81	6,176	0.110	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: AMMUNITION CARTRIDGES</i>			-	-	-	-	-	30.343	-	-	29.064	-	-	27.860	-	-	-	-	-	27.860
<b>IMPULSE CARTRIDGES</b>																				
(3W37) CHAFF, RR-188	A		-	-	-	-	-	-	-	-	-	3.37	593,471	2.000	-	-	-	3.37	593,471	2.000
(JN31) CU-168 SQUIB	A		-	-	-	-	-	-	600.00	833	0.500	600.00	1,666	1.000	-	-	-	600.24	1,666	1.000
(MG11) CTG,IMPULSE,BBU-36/B	A		-	-	-	1.68	746,130	1.254	1.70	1,117,647	1.900	3.60	555,556	2.000	-	-	-	3.60	555,556	2.000
(MG62) CTG, IMPULSE BBU-35/B	A		-	-	-	2.37	538,607	1.277	2.37	668,741	1.585	-	-	-	-	-	-	-	-	-
(SS27) CTG, IMPULSE, BBU-48/B	A		-	-	-	9.32	100,429	0.936	9.08	109,566	0.995	-	-	-	-	-	-	-	-	-
(WA83) CCU-136	A		-	-	-	-	-	-	3.55	1,408	0.005	3.59	1,392	0.005	-	-	-	3.59	1,392	0.005
(WB24) CCU-145	A		-	-	-	-	-	-	4.75	5,263	0.025	4.78	5,230	0.025	-	-	-	4.78	5,230	0.025
(WB33) CTG, IMP ARD 446-1B	A		-	-	-	-	-	-	-	-	-	8.20	109,756	0.900	-	-	-	8.20	109,756	0.900
(M189) ARD 863 IMPULSE CART	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(M190) IMPULSE CARTRIDGE MK1 MOD1	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(M943) MK107 IMPULSE CARTRIDGE	A		-	-	-	-	-	-	116.90	16,253	1.900	-	-	-	-	-	-	-	-	-
(MT40) BBU-46 SQUIB, ELECTRIC	A		-	-	-	78.98	12,661	1.000	79.03	6,326	0.500	79.88	7,110	0.568	-	-	-	79.89	7,110	0.568
(SS44) BBU-63/B IMPULSE CARTRIDGE	A		-	-	-	523.00	5,736	3.000	527.85	650	0.343	534.66	5,611	3.000	-	-	-	534.66	5,611	3.000
(SY16) RR-180 CHAFF CARTRIDGE	A		-	-	-	9.43	318,133	3.000	11.57	172,860	2.000	11.53	260,191	3.000	-	-	-	11.53	260,191	3.000
<i>Subtotal: IMPULSE CARTRIDGES</i>			-	-	-	-	-	10.466	-	-	9.753	-	-	12.498	-	-	-	-	-	12.498
<b>Total</b>			-	-	-	-	-	40.809	-	-	38.817	-	-	40.358	-	-	-	-	-	40.358



**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force		<b>Date:</b> February 2015
<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)

**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.

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

# UNCLASSIFIED

**Exhibit P-40, Budget Line Item Justification:** PB 2016 Air Force **Date:** February 2015

<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
--	---

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	25.872	30.098	89.759	-	89.759	97.799	28.445	29.726	29.514	-	331.213
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	-	25.872	30.098	89.759	-	89.759	97.799	28.445	29.726	29.514	-	331.213
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>25.872</b>	<b>30.098</b>	<b>89.759</b>	-	<b>89.759</b>	<b>97.799</b>	<b>28.445</b>	<b>29.726</b>	<b>29.514</b>	-	<b>331.213</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.

- BLU-109(D-1)/B Warhead: A 2,000-pound hard target inert bomb filled with 553 pounds of Filler-E wood product material. The warhead is used for testing on the Paveway II, III, and GBU-15 weapon systems. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.

- MK84 Inert: A 2,000-pound cement filled practice bomb used to simulate the weight of an explosive-filled 2,000-pound bomb. 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.

PE associated with this P-1 Line is 0207599F.

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force						<b>Date:</b> February 2015		
<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>			<b>Other Related Program Elements:</b>		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
(ED12) BDU-56A/B, 2000LB PRAC BOMB	P-5, P-5a		- / -	- / 1.750	- / 1.750	- / 1.750	- / -	- / 1.750
(ED96) BDU-50 2000LB CDI PRAC BOMB	P-5, P-5a		- / -	- / 24.122	- / 28.348	- / 88.009	- / -	- / 88.009
<b>Total Gross/Weapon System Cost</b>			- / -	- / 25.872	- / 30.098	- / 89.759	- / -	- / 89.759
*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 add due to rounding.								

**Justification:**  
FY2016 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.

- BLU-109(D-1)/B Warhead: No FY2016 funding requested.

- MK84 Inert: No FY2016 funding requested.

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.

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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) :										<b>MDAP/MAIS Code:</b>									
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016 Base</b>		<b>FY 2016 OCO</b>		<b>FY 2016 Total</b>					
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		1.750		1.750		1.750		-		1.750					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P1) <i>(\$ in Millions)</i>				-		1.750		1.750		1.750		-		1.750					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>				-		<b>1.750</b>		<b>1.750</b>		<b>1.750</b>		-		<b>1.750</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 add, due to rounding.																			
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2014</b>			<b>FY 2015</b>			<b>FY 2016 Base</b>			<b>FY 2016 OCO</b>			<b>FY 2016 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>	-	-	-	7,656.00	182	1.393	7,908.00	154	1.218	8,067.00	172	1.388	-	-	-	8,067.00	172	1.388	
LUG SUSP ACFT ORD MK3-0	-	-	-	47.00	368	0.017	66.00	311	0.021	59.00	346	0.020	-	-	-	59.00	346	0.020	
PALLET MK79-1	-	-	-	710.00	92	0.065	796.00	77	0.061	811.00	85	0.069	-	-	-	811.00	85	0.069	
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.476	-	-	1.300	-	-	1.477	-	-	-	-	-	1.477	
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	1.476	-	-	1.300	-	-	1.477	-	-	-	-	-	1.477	
Support - Support End Item Cost																			
PRODUCTION ENGINEERING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
QUALITY ASSURANCE	-	-	-	-	-	0.003	-	-	0.003	-	-	0.002	-	-	-	-	-	0.002	
FIRST ARTICLE TEST	-	-	-	-	-	-	-	-	0.176	-	-	-	-	-	-	-	-	-	
NAVY ENGINEERING SUPPORT	-	-	-	-	-	0.271	-	-	0.271	-	-	0.271	-	-	-	-	-	0.271	
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.274	-	-	0.450	-	-	0.273	-	-	-	-	-	0.273	
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>1.750</b>	-	-	<b>1.750</b>	-	-	<b>1.750</b>	-	-	-	-	-	<b>1.750</b>	
<b>Remarks:</b>																			

# UNCLASSIFIED

<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Air Force		<b>Date:</b> February 2015
<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) :		<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>		

**UNCLASSIFIED**

Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force								Date: February 2015				
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				
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)		2014	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Jun 2015	Jun 2016	182	7,656.00	Y		
LOAD, ASSEMBLE, PACK (LAP)		2015	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Jun 2015	Jun 2016	154	7,908.00	Y		
LOAD, ASSEMBLE, PACK (LAP)		2016	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Apr 2016	Apr 2017	172	8,067.00	Y		

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Air Force														<b>Date:</b> February 2015				
<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) :										<b>MDAP/MAIS Code:</b>								
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016 Base</b>		<b>FY 2016 OCO</b>		<b>FY 2016 Total</b>				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		24.122		28.348		88.009		-		88.009				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				-		24.122		28.348		88.009		-		88.009				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>				-		<b>24.122</b>		<b>28.348</b>		<b>88.009</b>		-		<b>88.009</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 add, due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2014</b>			<b>FY 2015</b>			<b>FY 2016 Base</b>			<b>FY 2016 OCO</b>			<b>FY 2016 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>	-	-	-	2,996.00	7,718	23.123	3,098.00	8,795	27.247	3,160.00	26,972	85.232	-	-	-	3,160.00	26,972	85.232
LUG SUSP ACFT ORD MS3314	-	-	-	27.00	15,591	0.421	27.00	17,766	0.480	32.00	54,483	1.743	-	-	-	32.00	54,483	1.743
PALLET INSPECTION, MHU-149/E	-	-	-	154.00	1,312	0.202	171.00	1,495	0.256	174.00	4,585	0.798	-	-	-	174.00	4,585	0.798
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	23.746	-	-	27.982	-	-	87.773	-	-	-	-	-	87.773
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	23.746	-	-	27.982	-	-	87.773	-	-	-	-	-	87.773
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.003	-	-	0.003	-	-	0.003	-	-	-	-	-	0.003
FIRST ARTICLE TEST	-	-	-	-	-	0.140	-	-	0.130	-	-	-	-	-	-	-	-	-
NAVY ENGINEERING SUPPORT	-	-	-	-	-	0.233	-	-	0.233	-	-	0.233	-	-	-	-	-	0.233
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.376	-	-	0.366	-	-	0.236	-	-	-	-	-	0.236
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>24.122</b>	-	-	<b>28.348</b>	-	-	<b>88.009</b>	-	-	-	-	-	<b>88.009</b>
<b>Remarks:</b>																		



# UNCLASSIFIED

<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Air Force		<b>Date:</b> February 2015
<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) :		<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, 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>		

**UNCLASSIFIED**

Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13			P-1 Line Item Number / Title: 353010 / Practice Bombs					Item Number / Title [DODIC]: - / (ED96) BDU-50 2000LB CDI PRAC BOMB				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2014	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Jun 2015	Jun 2016	7,718	2,996.00	Y		
LOAD, ASSEMBLE, PACK (LAP)		2015	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Jun 2015	Jun 2016	8,795	3,098.00	Y		
LOAD, ASSEMBLE, PACK (LAP)		2016	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Apr 2016	Apr 2017	26,972	3,160.00	Y		

# UNCLASSIFIED

**Exhibit P-40, Budget Line Item Justification:** PB 2016 Air Force **Date:** February 2015

<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
--	--

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	241.198	204.907	637.181	17.031	654.212	586.516	300.749	344.912	370.153	-	2,702.647
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	-	241.198	204.907	637.181	17.031	654.212	586.516	300.749	344.912	370.153	-	2,702.647
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	-	<b>241.198</b>	<b>204.907</b>	<b>637.181</b>	<b>17.031</b>	<b>654.212</b>	<b>586.516</b>	<b>300.749</b>	<b>344.912</b>	<b>370.153</b>	-	<b>2,702.647</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:

FY2014 funding totals include \$37.514M appropriated for Overseas Contingency Operations.

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 Ogden ALC.
- 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 Ogden ALC. FY2014 funding totals include \$0.462M appropriated for Overseas Contingency Operations. FY2016 funding totals include \$4.235 requested for Overseas Contingency Operations.
- 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. FY2014 funding totals include \$1.342M appropriated for Overseas Contingency Operations. 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. FY2014 funding totals include \$1.342M appropriated for Overseas Contingency Operations. FY2015 funding totals include \$19.393M appropriated for Overseas Contingency Operations. FY2016 funding totals include \$4.235 requested for Overseas Contingency Operations.
- 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). FY2014 funding totals include

# UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs		P-1 Line Item Number / Title: 353020 / General Purpose Bombs
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
\$16.937M appropriated for Overseas Contingency Operations. FY2015 funding totals include \$18.142M appropriated for Overseas Contingency Operations. FY2016 funding totals include \$4.235 requested for Overseas Contingency Operations.		
<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. 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). FY2014 funding totals include \$18.221M appropriated for Overseas Contingency Operations. FY2015 funding totals include \$11.539M appropriated for Overseas Contingency Operations. FY2016 funding totals include \$4.235 requested for Overseas Contingency Operations.</p> <p>- BLU-109 (ED49) warhead is a 2000-pound hard target penetrator bomb designed with Insensitive Munitions (IM) technology. 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). FY2014 funding totals include \$0.536M appropriated for Overseas Contingency Operations. FY2015 funding totals include \$17.219M appropriated for Overseas Contingency Operations.</p> <p>- Items Less Than Five Million Dollars: All items have an annual procurement of less than \$5,000,000 and are Code A. FY2014 funding totals include \$0.016M appropriated for Overseas Contingency Operations. FY2016 funding totals include \$.091M requested for Overseas Contingency Operations.</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>		

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force	<b>Date:</b> February 2015
--	----------------------------

<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
--	--

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
MXU-651/B FIN ASSEMBLY - EC31	P-40a	A	- / -	1,051 / 8.621	- / -	179 / 1.500	- / -	179 / 1.500
MXU-650 FIN ASSEMBLY - EC32	P-40a	A	- / -	3,554 / 14.150	2,600 / 10.356	4,519 / 18.000	1,061 / 4.235	5,580 / 22.235
(ED09) BLU-117, 2000LB GP BOMB	P-5, P-5a		- / -	- / 70.433	- / 73.215	- / 418.524	- / 4.235	- / 422.759
(ED15) BLU-111A/B 500LB GP BOMB	P-5, P-5a		- / -	- / 10.042	- / 13.201	- / 23.832	- / 4.235	- / 28.067
(ED49) BLU-109 2000 LB HARD TARGET BOMB	P-5, P-5a		- / -	- / 83.302	- / 57.235	- / 110.000	- / -	- / 110.000
MAU-209C/B - ED58	P-40a	A	- / -	- / 40.000	5,480 / 40.000	5,421 / 40.000	574 / 4.235	5,995 / 44.235
BLU-129/B 500LB BOMB	P-40a	A	- / -	- / -	- / -	- / 8.125	- / -	- / 8.125
BLU-111D/B CDI 500LB BOMB	P-40a	A	- / 0.000	- / -	- / -	- / -	- / -	- / -
LANYARD ASSY BOMB (EA67)	P-40a	A	- / 0.000	- / -	- / -	- / -	- / -	- / -
LANYARD (EA99)	P-40a	A	- / 0.000	- / -	- / -	- / -	- / -	- / -
BLU-110B/B GENERAL PURPOSE BOMB (ED41)	P-40a	A	- / -	- / -	- / -	- / -	- / 0.091	- / 0.091
BOMB FUZE PROTECTION ASSEMBLY (ED67)	P-40a	A	- / -	- / -	- / -	6,309 / 0.750	- / -	6,309 / 0.750
MK84 FIN ASSEMBLY (F607)	P-40a	A	- / -	- / 3.750	- / -	1,065 / 0.700	- / -	1,065 / 0.700
FIN ASSY BSU-33B/B (EE10) (was DODIC F782)	P-40a	A	- / -	- / -	- / -	20,025 / 4.850	- / -	20,025 / 4.850
CUP NOSESUPPORT MK81,82,83,84 (FW26)	P-40a	A	- / -	- / -	- / -	- / -	- / -	- / -
PLUG, NOSE FOR GP BOMB (G008)	P-40a	A	- / -	- / -	- / -	- / -	- / -	- / -
BLU-109 IM	P-40a	A	- / -	- / 2.000	- / 2.000	- / 2.000	- / -	- / 2.000
BLU-109 LWIP	P-40a	A	- / -	- / 3.000	- / 3.000	- / 3.000	- / -	- / 3.000
GP BOMB IM PRODUCTION ENGINEERING	P-40a	A	- / -	- / 4.900	- / 4.900	- / 4.900	- / -	- / 4.900
PMA OTHER GOVERNMENT COSTS	P-40a	A	- / -	- / 1.000	- / 1.000	- / 1.000	- / -	- / 1.000
<b>Total Gross/Weapon System Cost</b>			- / -	- / 241.198	- / 204.907	- / 637.181	- / 17.031	- / 654.212

\*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 add due to rounding.

**Justification:**

FY2016 purchases 500, 1000 and 2000 pound conventional general purpose bombs, and guidance and control kits to provide precision bombing capabilities. 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.

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.

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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> (EC31) MXU-651/B AFG, FIN ASSEMBLY				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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-651/B FIN ASSEMBLY - EC31	A		-	-	-	8,202.66	1,051	8.621	-	-	-	8,379.89	179	1.500	-	-	-	8,379.89	179	1.500
Subtotal: Uncategorized			-	-	-	-	-	8.621	-	-	-	-	-	1.500	-	-	-	-	-	1.500
Total			-	-	-	-	-	8.621	-	-	-	-	-	1.500	-	-	-	-	-	1.500

**Remarks:**

Prices shown on the P40A reflect the average unit cost of split-award contracts. Due to the competitive nature of the currently quanlified vendors, estimated unit costs are not available from the vendors for planning purposes.

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	3,981.43	3,554	14.150	3,983.00	2,600	10.356	3,983.18	4,519	18.000	3,991.52	1,061	4.235	3,984.77	5,580	22.235	
Subtotal: Uncategorized			-	-	-	-	-	14.150	-	-	10.356	-	-	18.000	-	-	4.235	-	-	22.235	
Total			-	-	-	-	-	14.150	-	-	10.356	-	-	18.000	-	-	4.235	-	-	22.235	

**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.

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force											Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13						P-1 Line Item Number / Title: 353020 / General Purpose Bombs						Item Number / Title [DODIC]: - / (ED09) BLU-117, 2000LB GP BOMB							
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:										
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total					
Procurement Quantity ( <i>Units in Each</i> )				-		-		-		-		-		-					
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				-		70.433		73.215		418.524		4.235		422.759					
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-		-		-		-		-		-					
Net Procurement (P1) ( <i>\$ in Millions</i> )				-		70.433		73.215		418.524		4.235		422.759					
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-		-		-		-		-		-					
Total Obligation Authority ( <i>\$ in Millions</i> )				-		70.433		73.215		418.524		4.235		422.759					
(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 add, due to rounding.																			
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>	-	-	-	7,981.70	5,137	41.002	5,142.00	2,681	13.786	5,324.00	16,417	87.404	5,324.00	166	0.884	5,324.00	16,583	88.288	
BOMB BODY 2000LB MK84 MOD 10 IM	-	-	-	4,117.41	5,137	21.151	7,072.00	2,681	18.960	6,549.54	16,417	107.524	7,213.00	166	1.197	6,556.19	16,583	108.721	
LUG SUSP ACFT ORD MK3-0	-	-	-	47.00	10,274	0.483	67.00	5,362	0.359	60.00	32,834	1.970	60.00	332	0.020	60.00	33,166	1.990	
CXM-AF7	-	-	-	21.05	269,371	5.671	21.00	1,844,528	38.735	0.19	1,129,490K	214.829	18.00	114,208	2.056	0.19	1,129,604K	216.885	
PALLET MK79-1	-	-	-	710.00	2,644	1.877	796.00	1,369	1.090	812.00	8,371	6.797	812.00	85	0.069	812.00	8,456	6.866	
Subtotal: Recurring Cost	-	-	-	-	-	70.184	-	-	72.930	-	-	418.524	-	-	4.226	-	-	422.750	
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	70.184	-	-	72.930	-	-	418.524	-	-	4.226	-	-	422.750	
Support - Support End Item Cost																			
PRODUCTION ENGINEERING	-	-	-	-	-	0.031	-	-	0.028	-	-	0.375	-	-	0.009	-	-	0.384	
QUALITY ASSURANCE	-	-	-	-	-	0.003	-	-	0.007	-	-	0.006	-	-	-	-	-	0.006	
FIRST ARTICLE TEST	-	-	-	-	-	-	-	-	0.036	-	-	0.034	-	-	-	-	-	0.034	
NAVY ENGINEERING SUPPORT	-	-	-	-	-	0.215	-	-	0.214	-	-	0.214	-	-	-	-	-	0.214	
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.249	-	-	0.285	-	-	0.629	-	-	0.009	-	-	0.638	
Gross/Weapon System Cost	-	-	-	-	-	70.433	-	-	73.215	-	-	418.524	-	-	4.235	-	-	422.759	



# UNCLASSIFIED

<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Air Force		<b>Date:</b> February 2015
<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) :		<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>		

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2016 Air Force								<b>Date:</b> February 2015				
<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		2014	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	AFLCMC Hill AFB	Jun 2016	Jul 2016	5,137	7,981.70	Y		
LOAD, ASSEMBLE, PACK		2015	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	AFLCMC Hill AFB	Jun 2017	Jul 2017	2,681	5,142.00	Y		
LOAD, ASSEMBLE, PACK		2016	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	AFLCMC Hill AFB	Jun 2018	Jul 2018	16,417	5,324.00	Y		

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015						
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) :									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		10.042		13.201		23.832		4.235		28.067				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P1) (\$ in Millions)				-		10.042		13.201		23.832		4.235		28.067				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		10.042		13.201		23.832		4.235		28.067				
(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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>	-	-	-	1,418.00	2,843	4.031	1,457.00	1,989	2.898	1,566.00	3,855	6.037	1,566.00	695	1.088	1,566.00	4,550	7.125
BOMB BODY 500 LB MK82 MOD 6 IM	-	-	-	1,690.00	2,843	4.805	2,427.00	1,989	4.827	2,476.00	3,855	9.545	2,476.00	695	1.721	2,476.00	4,550	11.266
LUG SUSP ACFT ORD MS3314	-	-	-	27.00	5,686	0.154	27.00	3,978	0.107	30.00	7,710	0.231	32.00	1,392	0.045	30.31	9,102	0.276
CXM-7	-	-	-	12.00	55,439	0.665	19.00	258,570	4.913	15.00	501,150	7.517	15.00	90,480	1.357	15.00	591,630	8.874
PALLET INSPECTION, MHU-122E	-	-	-	144.00	483	0.070	179.00	338	0.061	182.00	655	0.119	182.00	118	0.021	182.00	773	0.141
Subtotal: Recurring Cost	-	-	-	-	-	9.724	-	-	12.806	-	-	23.450	-	-	4.232	-	-	27.682
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	9.724	-	-	12.806	-	-	23.450	-	-	4.232	-	-	27.682
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.058	-	-	0.114	-	-	0.081	-	-	0.003	-	-	0.084
QUALITY ASSURANCE	-	-	-	-	-	0.010	-	-	0.012	-	-	0.012	-	-	-	-	-	0.012
FIRST ARTICLE TEST	-	-	-	-	-	-	-	-	0.019	-	-	0.038	-	-	-	-	-	0.038
NAVY ENGINEERING SUPPORT	-	-	-	-	-	0.250	-	-	0.250	-	-	0.250	-	-	-	-	-	0.250
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.318	-	-	0.395	-	-	0.381	-	-	0.003	-	-	0.384

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Air Force													<b>Date:</b> February 2015					
<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) :										<b>MDAP/MAIS Code:</b>								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
Gross/Weapon System Cost	-	-	-	-	-	10.042	-	-	13.201	-	-	23.832	-	-	4.235	-	-	28.067
<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>(†) indicates the presence of a P-5a</p>																		

**UNCLASSIFIED**

Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force								Date: February 2015				
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)		2014	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	AFLCMC Hill AFB	Jun 2016	Jul 2016	2,843	1,418.00	Y		
LOAD, ASSEMBLE, PACK (LAP)		2015	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	AFLCMC Hill AFB	Jun 2017	Jul 2017	1,989	1,457.00	Y		
LOAD, ASSEMBLE, PACK (LAP)		2016	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	AFLCMC Hill AFB	Jun 2018	Aug 2018	3,855	1,566.00	Y		

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force											Date: February 2015							
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) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		83.302		57.235		110.000		-		110.000				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P1) (\$ in Millions)				-		83.302		57.235		110.000		-		110.000				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		83.302		57.235		110.000		-		110.000				
(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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>	-	-	-	7,763.69	3,165	24.572	10,838.00	1,668	18.078	8,926.00	3,496	31.205	-	-	-	8,926.00	3,496	31.205
BOMB BODY, 2000LB BLU-109/B	-	-	-	14,928.00	3,165	47.247	18,057.00	1,668	30.119	17,720.00	3,496	61.949	-	-	-	17,720.00	3,496	61.949
CONTAINER, CNU-417/E	-	-	-	2,023.83	1,583	3.204	2,353.00	834	1.962	2,398.00	1,747	4.189	-	-	-	2,398.00	1,747	4.189
CXM-AF-5	-	-	-	15.85	501,492	7.948	24.00	283,560	6.805	21.00	594,320	12.481	-	-	-	21.00	594,320	12.481
Subtotal: Recurring Cost	-	-	-	-	-	82.971	-	-	56.965	-	-	109.824	-	-	-	-	-	109.824
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	82.971	-	-	56.965	-	-	109.824	-	-	-	-	-	109.824
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.242	-	-	0.141	-	-	0.087	-	-	-	-	-	0.087
QUALITY ASSURANCE	-	-	-	-	-	0.010	-	-	0.009	-	-	0.009	-	-	-	-	-	0.009
FIRST ARTICLE TEST	-	-	-	-	-	-	-	-	0.040	-	-	-	-	-	-	-	-	-
NAVY ENGINEERING SUPPORT	-	-	-	-	-	0.080	-	-	0.080	-	-	0.080	-	-	-	-	-	0.080
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.332	-	-	0.270	-	-	0.176	-	-	-	-	-	0.176
Gross/Weapon System Cost	-	-	-	-	-	83.302	-	-	57.235	-	-	110.000	-	-	-	-	-	110.000

# UNCLASSIFIED

<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Air Force		<b>Date:</b> February 2015
<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) :		<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>		

**UNCLASSIFIED**

Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force									Date: February 2015				
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		2014	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	AFLCMC Hill AFB	Jun 2015	Jul 2016	3,165	7,763.69	Y			
LOAD, ASSEMBLE, PACK		2015	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	AFLCMC Hill AFB	Jun 2015	Jul 2016	1,668	10,838.00	Y			
LOAD, ASSEMBLE, PACK		2016	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	AFLCMC Hill AFB	Jun 2016	Jul 2017	3,496	8,926.00	Y			



# UNCLASSIFIED

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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> (ED58) MAU-209C/B				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	-	-	40.000	7,299.27	5,480	40.000	7,378.71	5,421	40.000	7,378.05	574	4.235	7,378.65	5,995	44.235
Subtotal: Uncategorized			-	-	-	-	-	40.000	-	-	40.000	-	-	40.000	-	-	4.235	-	-	44.235
Total			-	-	-	-	-	40.000	-	-	40.000	-	-	40.000	-	-	4.235	-	-	44.235

## 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.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13								P-1 Line Item Number / Title: 353020 / General Purpose Bombs							Aggregated Items Title: (ED78) BLU-129/B 500LB BOMB				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	-	-	-	-	-	-	-	-	8.125	-	-	-	-	-	8.125	
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	-	-	-	8.125	-	-	-	-	-	8.125	
Total			-	-	-	-	-	-	-	-	-	-	-	8.125	-	-	-	-	-	8.125	

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13						P-1 Line Item Number / Title: 353020 / General Purpose Bombs									Aggregated Items Title: (XXXX) BLU-111D/B CDI 500LB BOMB				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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-111D/B CDI 500LB BOMB	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal: Uncategorized			-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total			-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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)				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
BLU-110B/B GENERAL PURPOSE BOMB (ED41)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.091	-	-	0.091				
BOMB FUZE PROTECTION ASSEMBLY (ED67)	A		-	-	-	-	-	-	-	-	-	118.88	6,309	0.750	-	-	-	118.88	6,309	0.750				
MK84 FIN ASSEMBLY (F607)	A		-	-	-	-	-	3.750	-	-	-	657.28	1,065	0.700	-	-	-	657.28	1,065	0.700				
FIN ASSY BSU-33B/ B (EE10) (was DODIC F782)	A		-	-	-	-	-	-	-	-	-	242.20	20,025	4.850	-	-	-	242.20	20,025	4.850				
CUP NOSESUPPORT MK81,82,83,84 (FW26)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PLUG, NOSE FOR GP BOMB (G008)	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
BLU-109 IM	A		-	-	-	-	-	2.000	-	-	2.000	-	-	2.000	-	-	-	-	-	2.000				
BLU-109 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			-	-	-	-	-	14.650	-	-	10.900	-	-	17.200	-	-	0.091	-	-	17.291				
Total			-	-	-	-	-	14.650	-	-	10.900	-	-	17.200	-	-	0.091	-	-	17.291				

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force										<b>Date:</b> February 2015		
<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>				<b>Other Related Program Elements:</b> 0604327F				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</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	-	39.690	-	-	-	-	-	39.690
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	-	39.690	-	39.690	-	-	-	-	-	39.690
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	<b>0.000</b>	-	-	<b>39.690</b>	-	<b>39.690</b>	-	-	-	-	-	<b>39.690</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 (INS/GPS). 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 in FY10 are in PE 0208030F, project 353020.</p>												

# UNCLASSIFIED

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force						<b>Date:</b> February 2015		
<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>			<b>Other Related Program Elements:</b> 0604327F		
<b>Exhibits Schedule</b>			<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
<b>Title*</b>	<b>Exhibits</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>
Massive Ordnance Penetrator (MOP)	P-40a	A	- / 0.000	- / -	- / -	- / 39.690	- / -	- / 39.690
<b>Total Gross/Weapon System Cost</b>			<b>- / 0.000</b>	<b>- / -</b>	<b>- / -</b>	<b>- / 39.690</b>	<b>- / -</b>	<b>- / 39.690</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 add due to rounding.</p>								

**Justification:**  
Procure MOP weapons and tail kits. This is not a new start activity.

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 11						<b>P-1 Line Item Number / Title:</b> 353190 / MASSIVE ORDNANCE PENETRATOR (MOP)									<b>Aggregated Items Title:</b> MASSIVE ORDNANCE PENETRATOR (MOP)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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	-	-	-	-	-	39.690	
Subtotal: Hardware			-	-	0.000	-	-	-	-	-	-	-	-	39.690	-	-	-	-	-	39.690	
Total			-	-	0.000	-	-	-	-	-	-	-	-	39.690	-	-	-	-	-	39.690	

**Remarks:**

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.

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED



# UNCLASSIFIED

**Exhibit P-40, Budget Line Item Justification:** PB 2016 Air Force **Date:** February 2015

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

**P-1 Line Item Number / Title:**  
353620 / JOINT DIRECT ATTACK MUNITION

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

**Line Item MDAP/MAIS Code:** 503 **Item MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	163,812	10,415	4,333	6,341	5,953	12,294	9,876	6,420	8,969	10,998	-	227,117
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	3,692.577	250.469	228.439	374.688	184.412	559.100	306.158	205.542	295.963	373.855	-	5,912.103
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	3,692.577	250.469	228.439	374.688	184.412	559.100	306.158	205.542	295.963	373.855	-	5,912.103
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>3,692.577</b>	<b>250.469</b>	<b>228.439</b>	<b>374.688</b>	<b>184.412</b>	<b>559.100</b>	<b>306.158</b>	<b>205.542</b>	<b>295.963</b>	<b>373.855</b>	<b>-</b>	<b>5,912.103</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> )	0.023	0.024	0.053	0.059	0.031	0.045	0.031	0.032	0.033	0.034	-	0.026

## Description:

FY2014 funding totals include \$71.959M appropriated for Overseas Contingency Operations (OCO). These funds procure 3,020 JDAM guidance kits and 1,050 laser sensors.  
FY2015 funding totals include \$117.039M appropriated for Overseas Contingency Operations (OCO). These funds procure 4,658 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.

Funding for this exhibit contained in PE 0207583F.

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force						<b>Date:</b> February 2015	
<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>		<b>Other Related Program Elements:</b>		
<b>Line Item MDAP/MAIS Code:</b> 503		<b>Item MDAP/MAIS Code(s):</b>					

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
JOINT DIRECT ATTACK MUNITION	P-5, P-5a, P-21		163,812 / 3,692.577	10,415 / 250.469	4,333 / 228.439	6,341 / 374.688	5,953 / 184.412	12,294 / 559.100
<b>Total Gross/Weapon System Cost</b>			<b>163,812 / 3,692.577</b>	<b>10,415 / 250.469</b>	<b>4,333 / 228.439</b>	<b>6,341 / 374.688</b>	<b>5,953 / 184.412</b>	<b>12,294 / 559.100</b>

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	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)
JOINT DIRECT ATTACK MUNITION	P-5, P-5a, P-21		9,876 / 306.158	6,420 / 205.542	8,969 / 295.963	10,998 / 373.855	- / -	227,117 / 5,912.103
<b>Total Gross/Weapon System Cost</b>			<b>9,876 / 306.158</b>	<b>6,420 / 205.542</b>	<b>8,969 / 295.963</b>	<b>10,998 / 373.855</b>	<b>- / -</b>	<b>227,117 / 5,912.103</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 add due to rounding.

**Justification:**  
Procure a total of 12,294 JDAM guidance kits, 2,260 laser sensors, and 225 test equipment sets. This 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. The Overseas Contingency Operations (OCO) funds procures 5,953 JDAM guidance kits, 760 laser sensors, and 75 airborne test sets - these are included in the totals given above.

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force									Date: February 2015									
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) :							MDAP/MAIS Code:											
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total					
Procurement Quantity <i>(Units in Each)</i>		163,812	10,415	4,333	6,341	5,953	12,294	9,876	6,420	8,969	10,998	-	227,117					
Gross/Weapon System Cost <i>(\$ in Millions)</i>		3,692.577	250.469	228.439	374.688	184.412	559.100	306.158	205.542	295.963	373.855	-	5,912.103					
Less PY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P1) <i>(\$ in Millions)</i>		3,692.577	250.469	228.439	374.688	184.412	559.100	306.158	205.542	295.963	373.855	-	5,912.103					
Plus CY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority <i>(\$ in Millions)</i>		3,692.577	250.469	228.439	374.688	184.412	559.100	306.158	205.542	295.963	373.855	-	5,912.103					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>		0.023	0.024	0.053	0.059	0.031	0.045	0.031	0.032	0.033	0.034	-	0.026					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
JDAM TAIL KIT <sup>(†)</sup>	0.021	163,812	3,380.416	0.018	10,415	191.290	0.027	7,877	211.870	0.052	6,341	329.812	0.027	5,953	163.000	0.040	12,294	492.812
LASER SENSOR <sup>(†)</sup>	0.036	1,500	54.087	0.014	3,500	47.600	-	-	-	0.015	1,500	22.500	0.016	760	12.000	0.015	2,260	34.500
Subtotal: Recurring Cost	-	-	3,434.503	-	-	238.890	-	-	211.870	-	-	352.312	-	-	175.000	-	-	527.312
Subtotal: Hardware - Hardware End Item Cost	-	-	3,434.503	-	-	238.890	-	-	211.870	-	-	352.312	-	-	175.000	-	-	527.312
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 <sup>(†)</sup>	-	-	60.100	-	-	-	-	-	-	0.049	150	7.289	0.048	75	3.600	0.048	225	10.889
Subtotal: Recurring Cost	-	-	67.835	-	-	-	-	-	-	-	-	7.289	-	-	3.600	-	-	10.889
Subtotal: Ancillary Equipment -	-	-	67.835	-	-	-	-	-	-	-	-	7.289	-	-	3.600	-	-	10.889

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015						
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) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Ancillary/Equipment End Item Cost																		
Support - Support End Item Cost																		
PMA - GOVERNMENT COSTS	-	-	38.302	-	-	1.492	-	-	1.657	-	-	1.396	-	-	0.700	-	-	2.096
ALTERNATE DISPUTE RESOLUTION	-	-	0.990	-	-	0.054	-	-	0.055	-	-	0.056	-	-	0.030	-	-	0.086
SYSTEM TEST & EVALUATION	-	-	0.222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRAINING	-	-	4.533	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PRODUCTION SUSTAINING ENGINEERING	-	-	106.525	-	-	7.955	-	-	13.798	-	-	11.986	-	-	5.082	-	-	17.068
CONTRACTOR INCENTIVE	-	-	35.897	-	-	2.078	-	-	1.059	-	-	1.649	-	-	-	-	-	1.649
DELIVERY ACCELERATION	-	-	2.753	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEEK EAGLE	-	-	0.957	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Support End Item Cost	-	-	190.179	-	-	11.579	-	-	16.569	-	-	15.087	-	-	5.812	-	-	20.899
Gross/Weapon System Cost	0.023	163,812	3,692.577	0.024	10,415	250.469	0.053	4,333	228.439	0.059	6,341	374.688	0.031	5,953	184.412	0.045	12,294	559.100
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			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)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
JDAM TAIL KIT <sup>(†)</sup>	0.027	9,876	262.825	0.025	6,420	162.422	0.028	8,969	252.064	0.030	10,998	329.231	-	-	-	0.023	230,661	5,282.930
LASER SENSOR <sup>(†)</sup>	0.016	1,500	24.000	0.016	1,500	24.000	0.016	1,500	24.000	0.016	1,500	24.000	-	-	-	0.018	13,260	232.187
Subtotal: Recurring Cost	-	-	286.825	-	-	186.422	-	-	276.064	-	-	353.231	-	-	-	-	-	5,515.117
Subtotal: Hardware - Hardware End Item Cost	-	-	286.825	-	-	186.422	-	-	276.064	-	-	353.231	-	-	-	-	-	5,515.117
Logistics - Logistics End Item Cost																		
Recurring Cost																		
TECHNICAL DATA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.060
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.060

**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis: PB 2016 Air Force</b>												<b>Date:</b> February 2015					
<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					

ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			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)
Subtotal: Logistics - Logistics End Item Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.060
Ancillary Equipment - AncillaryEquipment End Item Cost																		
Recurring Cost																		
TEST EQUIPMENT (CMBRE)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.735
AIRBORNE TEST EQUIPMENT <sup>(†)</sup>	0.040	108	4.331	0.039	112	4.395	0.040	112	4.478	0.040	114	4.563	-	-	-	0.132	671	88.756
Subtotal: Recurring Cost	-	-	4.331	-	-	4.395	-	-	4.478	-	-	4.563	-	-	-	-	-	96.491
Subtotal: Ancillary Equipment - AncillaryEquipment End Item Cost	-	-	4.331	-	-	4.395	-	-	4.478	-	-	4.563	-	-	-	-	-	96.491
Support - Support End Item Cost																		
PMA - GOVERNMENT COSTS	-	-	1.418	-	-	1.442	-	-	1.469	-	-	1.500	-	-	-	-	-	49.376
ALTERNATE DISPUTE RESOLUTION	-	-	0.057	-	-	0.058	-	-	0.059	-	-	0.060	-	-	-	-	-	1.419
SYSTEM TEST & EVALUATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.222
TRAINING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.533
PRODUCTION SUSTAINING ENGINEERING	-	-	12.199	-	-	12.413	-	-	12.633	-	-	12.855	-	-	-	-	-	195.446
CONTRACTOR INCENTIVE	-	-	1.328	-	-	0.812	-	-	1.260	-	-	1.646	-	-	-	-	-	45.729
DELIVERY ACCELERATION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.753
SEEK EAGLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.957
Subtotal: Support - Support End Item Cost	-	-	15.002	-	-	14.725	-	-	15.421	-	-	16.061	-	-	-	-	-	300.435
Gross/Weapon System Cost	0.031	9,876	306.158	0.032	6,420	205.542	0.033	8,969	295.963	0.034	10,998	373.855	-	-	-	0.026	227,117	5,912.103

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

**UNCLASSIFIED**

Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force								Date: February 2015				
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	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	Oct 2015	10,415	0.018	Y		Oct 2013
JDAM TAIL KIT <sup>(†)</sup>		2015	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Feb 2015	Jun 2016	7,877	0.027	Y		Oct 2013
JDAM TAIL KIT - May 2016 <sup>(†)</sup>		2016	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	May 2016	Feb 2017	6,341	0.052	Y		Oct 2013
JDAM TAIL KIT - May 2016	✓	2016	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	May 2016	Feb 2017	5,953	0.027	Y		Oct 2013
JDAM TAIL KIT <sup>(†)</sup>		2017	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	May 2017	Feb 2018	9,876	0.027	Y		Oct 2013
JDAM TAIL KIT <sup>(†)</sup>		2018	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	May 2018	Feb 2019	6,420	0.025	Y		Oct 2013
JDAM TAIL KIT <sup>(†)</sup>		2019	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	May 2019	Feb 2020	8,969	0.028	Y		Jul 2018
JDAM TAIL KIT <sup>(†)</sup>		2020	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	May 2020	Feb 2021	10,998	0.030	Y		Jul 2018
LASER SENSOR		2014	BOEING / ST CHARLES, MO	SS / FFP	NAVAIR	Feb 2014	Feb 2015	3,500	0.014	Y		May 2012
LASER SENSOR - Feb 2016		2016	BOEING / ST CHARLES, MO	SS / FFP	NAVAIR	Feb 2016	Feb 2017	1,500	0.015	Y		May 2015
LASER SENSOR - Feb 2016	✓	2016	BOEING / ST CHARLES, MO	SS / FFP	NAVAIR	Feb 2016	Feb 2017	760	0.016	Y		May 2015
LASER SENSOR		2017	BOEING / ST CHARLES, MO	SS / FFP	NAVAIR	Feb 2017	Feb 2018	1,500	0.016	Y		May 2015
LASER SENSOR		2018	BOEING / ST CHARLES, MO	SS / FFP	NAVAIR	Feb 2018	Feb 2019	1,500	0.016	Y		May 2015
LASER SENSOR		2019	BOEING / ST CHARLES, MO	SS / FFP	NAVAIR	Feb 2019	Feb 2020	1,500	0.016	Y		May 2015
LASER SENSOR		2020	BOEING / ST CHARLES, MO	SS / FFP	NAVAIR	Feb 2020	Feb 2021	1,500	0.016	Y		May 2015
AIRBORNE TEST EQUIPMENT - May 2016		2016	BOEING / ST CHARLES, MO	SS / FFP	AFMC/AAC	May 2016	Jul 2017	150	0.049	Y		Jan 2015
AIRBORNE TEST EQUIPMENT - May 2016	✓	2016	BOEING / ST CHARLES, MO	SS / FFP	AFMC/AAC	May 2016	Jul 2017	75	0.048	Y		
AIRBORNE TEST EQUIPMENT		2017	BOEING / ST CHARLES, MO	SS / FFP	AFMC/AAC	May 2017	Jul 2018	108	0.040	Y		Jan 2015
AIRBORNE TEST EQUIPMENT		2018	BOEING / ST CHARLES, MO	SS / FFP	AFMC/AAC	May 2018	Jul 2019	112	0.039	Y		Jan 2015
AIRBORNE TEST EQUIPMENT		2019	BOEING / ST CHARLES, MO	SS / FFP	AFMC/AAC	May 2019	Jul 2020	112	0.040	Y		Jan 2015
AIRBORNE TEST EQUIPMENT		2020	BOEING / ST CHARLES, MO	SS / FFP	AFMC/AAC	May 2020	Jul 2021	114	0.040	Y		
(†) indicates the presence of a P-21												

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

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Air Force																				Date: February 2015													
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 2014													Fiscal Year 2015													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014													Calendar Year 2015													B A L
							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: 163812																																	
	1	2014	AF	10.415	-	10.415													A -	-	-	-	-	-	-	-	-	-	-	-	-	10.415	
	1	2015	AF	7.877	-	7.877																	A -	-	-	-	-	-	-	-	-	7.877	
	1	2017	AF	9.876	-	9.876																										9.876	
	1	2018	AF	6.420	-	6.420																										6.420	
	1	2019	AF	8.969	-	8.969																										8.969	
	1	2020	AF	10.998	-	10.998																										10.998	
JDAM TAIL KIT - May 2016																																	
Prior Years Deliveries: 163812																																	
	1	2016	AF	6.341	-	6.341																										6.341	
							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	B A L		

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Air Force																				Date: February 2015														
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 2016										Fiscal Year 2017																	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016										Calendar Year 2017										B A L							
							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: 163812																																		
	1	2014	AF	10.415	-	10.415	.868	.868	.868	.868	.868	.868	.868	.868	.868	.868	.867																-	
	1	2015	AF	7.877	-	7.877	-	-	-	-	-	-	-	-	.656	.656	.656	.656	.656	.656	.656	.656	.656	.656	.656	.661								-
	1	2017	AF	9.876	-	9.876																					A -	-	-	-	-	9.876		
	1	2018	AF	6.420	-	6.420																										6.420		
	1	2019	AF	8.969	-	8.969																										8.969		
	1	2020	AF	10.998	-	10.998																										10.998		
JDAM TAIL KIT - May 2016																																		
Prior Years Deliveries: 163812																																		
	1	2016	AF	6.341	-	6.341								A -	-	-	-	-	-	-	-	-	.528	.528	.528	.528	.528	.528	.528	.528		2.117		
							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	B A L			



UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Air Force																				Date: February 2015													
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 2018													Fiscal Year 2019													
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 7	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L		
JDAM TAIL KIT																																	
Prior Years Deliveries: 163812																																	
	1	2014	AF		10.415	10.415	-																										-
	1	2015	AF		7.877	7.877	-																										-
	1	2017	AF		9.876	-	9.876	-	-	-	-	-	.823	.823	.823	.823	.823	.823	.823	.823	.823	.823	.823									-	
	1	2018	AF		6.420	-	6.420							A -	-	-	-	-	-	-	-	-	.535	.535	.535	.535	.535	.535	.535	.535	2.140		
	1	2019	AF		8.969	-	8.969																		A -	-	-	-	-	-	8.969		
	1	2020	AF		10.998	-	10.998																								10.998		
JDAM TAIL KIT - May 2016																																	
Prior Years Deliveries: 163812																																	
	1	2016	AF		6.341	4.224	2.117	.528	.528	.528	.533																					-	
							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	B A L		

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Air Force																							Date: February 2015										
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 2020													Fiscal Year 2021													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021													B A L
							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: 163812																																	
	1	2014	AF		10.415	10.415	-																										-
	1	2015	AF		7.877	7.877	-																										-
	1	2017	AF		9.876	9.876	-																										-
	1	2018	AF		6.420	4.280	2.140	.535	.535	.535	.535														-								
	1	2019	AF		8.969	-	8.969	-	-	-	-	.747	.747	.747	.747	.747	.747	.747	.747	.747	.747	.747	.752										-
	1	2020	AF		10.998	-	10.998								A -	-	-	-	-	-	-	-	-	.916	.916	.916	.916	.916	.916	.916	.917	.917	3.668
JDAM TAIL KIT - May 2016																																	
Prior Years Deliveries: 163812																																	
	1	2016	AF		6.341	6.341	-																										-
							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	B A L		

UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Air Force																				Date: February 2015														
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 2022													Fiscal Year 2023														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2021	BAL DUE AS OF 1 OCT				Calendar Year 2022										Calendar Year 2023														
							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	B A L			
JDAM TAIL KIT																																		
Prior Years Deliveries: 163812																																		
	1	2014	AF		10.415	10.415	-																											-
	1	2015	AF		7.877	7.877	-																											-
	1	2017	AF		9.876	9.876	-																											-
	1	2018	AF		6.420	6.420	-																											-
	1	2019	AF		8.969	8.969	-																											-
	1	2020	AF		10.998	7.330	3.668	.917	.917	.917	.917																					-		
JDAM TAIL KIT - May 2016																																		
Prior Years Deliveries: 163812																																		
	1	2016	AF		6.341	6.341	-																											-
							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	B A L			

# UNCLASSIFIED

Exhibit P-21, Production Schedule: PB 2016 Air Force									Date: February 2015				
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			
		Production Rates (Each / Month)			Procurement Leadtime (Months)								
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	BOEING - ST CHARLES, MO	3,250	15,840	16,800	-	-	-	-	-	8	9	17	
"A" in the Delivery Schedule indicates the Contract Award Date. Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand).If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).													

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force									<b>Date:</b> February 2015			
<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>					<b>Other Related Program Elements:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	35.837	29.989	58.266	-	58.266	52.016	45.641	46.513	47.391	-	315.653
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	35.837	29.989	58.266	-	58.266	52.016	45.641	46.513	47.391	-	315.653
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>35.837</b>	<b>29.989</b>	<b>58.266</b>	-	<b>58.266</b>	<b>52.016</b>	<b>45.641</b>	<b>46.513</b>	<b>47.391</b>	-	<b>315.653</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>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 &amp; 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.</p> <p>CAD/PAD items are purchased for AF by the CAD/PAD Joint Program Office at Hill AFB, UT.</p> <p>PE associated with this P-1 Line is 0708070F.</p>												

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force	<b>Date:</b> February 2015
--	----------------------------

<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
--	--

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
BOMBER AIRCRAFT	P-40a	A	- / -	- / 6.200	- / 4.834	- / 8.766	- / -	- / 8.766
CARGO AIRCRAFT	P-40a	A	- / -	- / 4.314	- / 2.688	- / 5.548	- / -	- / 5.548
FIGHTER AIRCRAFT	P-40a	A	- / -	- / 5.494	- / 6.200	- / 11.596	- / -	- / 11.596
TRAINING AIRCRAFT	P-40a	A	- / -	- / 12.715	- / 11.866	- / 26.189	- / -	- / 26.189
COMMON EGRESS ITEMS	P-40a	A	- / -	- / 1.744	- / 2.148	- / 3.088	- / -	- / 3.088
COMMON LIFE SUPPORT ITEMS	P-40a	A	- / -	- / 3.626	- / 1.534	- / 2.941	- / -	- / 2.941
COMMON MISC ITEMS	P-40a	A	- / -	- / 1.744	- / 0.719	- / 0.138	- / -	- / 0.138
<b>Total Gross/Weapon System Cost</b>			- / -	- / 35.837	- / 29.989	- / 58.266	- / -	- / 58.266

\*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 add due to rounding.

**Justification:**  
FY2016 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.

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 15								<b>P-1 Line Item Number / Title:</b> 355100 / CAD/PAD							<b>Aggregated Items Title:</b> CAD/PAD				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	-	-	6.200	-	-	4.834	-	-	8.766	-	-	-	-	-	8.766
CARGO AIRCRAFT	A		-	-	-	-	-	4.314	-	-	2.688	-	-	5.548	-	-	-	-	-	5.548
FIGHTER AIRCRAFT	A		-	-	-	-	-	5.494	-	-	6.200	-	-	11.596	-	-	-	-	-	11.596
TRAINING AIRCRAFT	A		-	-	-	-	-	12.715	-	-	11.866	-	-	26.189	-	-	-	-	-	26.189
COMMON EGRESS ITEMS	A		-	-	-	-	-	1.744	-	-	2.148	-	-	3.088	-	-	-	-	-	3.088
COMMON LIFE SUPPORT ITEMS	A		-	-	-	-	-	3.626	-	-	1.534	-	-	2.941	-	-	-	-	-	2.941
COMMON MISC ITEMS	A		-	-	-	-	-	1.744	-	-	0.719	-	-	0.138	-	-	-	-	-	0.138
Subtotal: Uncategorized			-	-	-	-	-	35.837	-	-	29.989	-	-	58.266	-	-	-	-	-	58.266
Total			-	-	-	-	-	35.837	-	-	29.989	-	-	58.266	-	-	-	-	-	58.266

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED



**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force									<b>Date:</b> February 2015			
<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>					<b>Other Related Program Elements:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	7.531	6.925	5.612	-	5.612	5.755	5.908	6.060	6.175	-	43.966
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	7.531	6.925	5.612	-	5.612	5.755	5.908	6.060	6.175	-	43.966
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>7.531</b>	<b>6.925</b>	<b>5.612</b>	-	<b>5.612</b>	<b>5.755</b>	<b>5.908</b>	<b>6.060</b>	<b>6.175</b>	-	<b>43.966</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>  Explosive Ordnance Disposal (EOD), Demolition Material, Civil Engineering Tools and Equipment includes all explosives, explosive tools and related equipment to render unexploded ordnance safe. Provides 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. 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).</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>PEs associated with this P-1 Line are 0204424F and 0208028F.</p>												

**UNCLASSIFIED**

Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items				P-1 Line Item Number / Title: 355450 / Explosive Ordnance Disposal (EOD)				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
(AA62) 12 GAUGE M274 ULTRA CARTRIDGE	P-40a	A	- / -	- / -	965 / 0.006	- / -	- / -	- / -
(AA66) - MEDIUM VELOCITY BLANK	P-40a	A	- / -	- / -	2,857 / 0.004	- / -	- / -	- / -
(DWDF) - CONTAINER, MAIN CHARGE	P-40a	A	- / -	42 / 0.004	- / -	27 / 0.004	- / -	27 / 0.004
(M023) - CHARGE, DEMOLITION C4-M112	P-40a	A	- / -	74,412 / 3.100	61,191 / 2.600	51,321 / 2.700	- / -	51,321 / 2.700
(M097) INERT, NON-ELECTRIC CAP	P-40a	A	- / -	- / -	- / -	91 / 0.005	- / -	91 / 0.005
(M130) - CAP BLASTING ELECTRIC M6	P-40a	A	- / -	7,409 / 0.300	9,535 / 0.400	11,962 / 0.500	- / -	11,962 / 0.500
(M131) - CAP, BLASTING NON-ELECTRIC-M7	P-40a	A	- / -	10,941 / 0.150	7,000 / 0.150	6,078 / 0.150	- / -	6,078 / 0.150
(M420) - CHARGE, DEMO SHAPED M2A4 15 LB COMB B	P-40a	A	- / -	- / -	117 / 0.100	232 / 0.356	- / -	232 / 0.356
(M421) - CHARGE, DEMO SHAPED M3A2 40LB COMB B	P-40a	A	- / -	290 / 0.411	297 / 0.450	- / -	- / -	- / -
(M456) - CORD ASBLY DETONATING	P-40a	A	- / -	305,556 / 0.110	405,405 / 0.150	243,902 / 0.100	- / -	243,902 / 0.100
(M482) - CONTAINER SHAPE CHARGE, MK7 MOD6	P-40a	A	- / -	- / -	127 / 0.005	- / -	- / -	- / -
(M980) - DETA SHEET	P-40a	A	- / -	5,093 / 0.150	6,609 / 0.200	6,542 / 0.200	- / -	6,542 / 0.200
(ML05) CUTTER, HE MK24 MOD 0	P-40a	A	- / -	- / -	- / -	186 / 0.040	- / -	186 / 0.040
(ML47) - B CAP W/30 FT SHOCK TUBE	P-40a	A	- / -	505 / 0.015	462 / 0.010	- / -	- / -	- / -
(MM24) DEMO ECT, MK 142, 300GPF	P-40a	A	- / -	- / -	1 / 0.200	- / -	- / -	- / -
(MM51) DEMO ECT, MK 143, 600GPF	P-40a	A	- / -	- / -	1 / 0.247	1,327 / 0.100	- / -	1,327 / 0.100
(MM52) DEMO ECT, MK144, 1200GPF	P-40a	A	- / -	- / -	1 / 0.250	2,906 / 0.219	- / -	2,906 / 0.219
(MM53) - DEMO ECT, MK145, 2400GPF	P-40a	A	- / -	5,653 / 0.200	704 / 0.040	- / -	- / -	- / -
(MM54) - EXPLOSIVE CUTTING TAPE	P-40a	A	- / -	7,325 / 0.400	18,119 / 1.000	5,376 / 0.300	- / -	5,376 / 0.300
(MN07) - N/E 70FT DELAY SHOCK TUBE	P-40a	A	- / -	2,613 / 0.048	431 / 0.008	426 / 0.008	- / -	426 / 0.008
(MN06) M14 SET UP, N/E CAP WITH TIME FUZE	P-40a	A	- / -	- / -	5,476 / 0.050	1,076 / 0.010	- / -	1,076 / 0.010
(MN08) - IGNITER TIME BLASTING	P-40a	A	- / -	59,524 / 0.500	55,679 / 0.500	49,261 / 0.500	- / -	49,261 / 0.500
(MN82) - SEMTEX A	P-40a	A	- / -	- / -	1,963 / 0.035	- / -	- / -	- / -
(MN85) - DYNAMITE, 75% AMMON NITRATE	P-40a	A	- / -	1,370 / 0.003	- / -	- / -	- / -	- / -
(MN88) - SHOCK TUBE W/BLASTING CAP 500	P-40a	A	- / -	40,040 / 2.020	- / -	- / -	- / -	- / -
(MN90) - M-13 1,000 FT SHOCK TUBE W/CAP M23	P-40a	A	- / -	1,145 / 0.100	- / -	- / -	- / -	- / -
(YY34) - SHOCK TUBE	P-40a	A	- / -	40,816 / 0.020	40,000 / 0.020	39,216 / 0.020	- / -	39,216 / 0.020
MK209	P-40a	A	- / -	- / -	1 / 0.500	1 / 0.400	- / -	1 / 0.400
RT 4 N/L	P-40a	A	- / 0.000	- / -	- / -	- / -	- / -	- / -
DEMOLITION REMOTE FIRING DEVICE	P-40a	A	- / 0.000	- / -	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / -	- / 7.531	- / 6.925	- / 5.612	- / -	- / 5.612
*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 add due to rounding.								
Justification:								

# UNCLASSIFIED

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force		<b>Date:</b> February 2015
<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>	<b>Other Related Program Elements:</b>
<p>FY2016 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.</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>		

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015					
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)					
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.																				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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	-	-	-	-	-	-	-	-	-
(AA66) - MEDIUM VELOCITY BLANK	A		-	-	-	-	-	-	1.40	2,857	0.004	-	-	-	-	-	-	-	-	-
(DWDF) - CONTAINER, MAIN CHARGE	A		-	-	-	95.24	42	0.004	-	-	-	148.15	27	0.004	-	-	-	148.15	27	0.004
(M023) - CHARGE, DEMOLITION C4-M112	A		-	-	-	41.66	74,412	3.100	42.49	61,191	2.600	52.61	51,321	2.700	-	-	-	52.61	51,321	2.700
(M097) INERT, NON-ELECTRIC CAP	A		-	-	-	-	-	-	-	-	-	54.95	91	0.005	-	-	-	54.95	91	0.005
(M130) - CAP BLASTING ELECTRIC M6	A		-	-	-	40.49	7,409	0.300	41.95	9,535	0.400	41.80	11,962	0.500	-	-	-	41.80	11,962	0.500
(M131) - CAP, BLASTING NON-ELECTRIC-M7	A		-	-	-	13.71	10,941	0.150	21.43	7,000	0.150	24.68	6,078	0.150	-	-	-	24.68	6,078	0.150
(M420) - CHARGE, DEMO SHAPED M2A4 15 LB COMB B	A		-	-	-	-	-	-	854.70	117	0.100	1,534.00	232	0.356	-	-	-	1,534.48	232	0.356
(M421) - CHARGE, DEMO SHAPED M3A2 40LB COMB B	A		-	-	-	1,417.24	290	0.411	1,515.15	297	0.450	-	-	-	-	-	-	-	-	-
(M456) - CORD ASBLY DETONATING	A		-	-	-	0.36	305,556	0.110	0.37	405,405	0.150	0.41	243,902	0.100	-	-	-	0.41	243,902	0.100
(M482) - CONTAINER SHAPE CHARGE, MK7 MOD6	A		-	-	-	-	-	-	39.37	127	0.005	-	-	-	-	-	-	-	-	-
(M980) - DETA SHEET	A		-	-	-	29.45	5,093	0.150	30.26	6,609	0.200	30.57	6,542	0.200	-	-	-	30.57	6,542	0.200
(ML05) CUTTER, HE MK24 MOD 0	A		-	-	-	-	-	-	-	-	-	215.05	186	0.040	-	-	-	215.05	186	0.040
(ML47) - B CAP W/30 FT SHOCK TUBE	A		-	-	-	29.70	505	0.015	21.65	462	0.010	-	-	-	-	-	-	-	-	-
(MM24) DEMO ECT, MK 142, 300GPF	A		-	-	-	-	-	-	200,000.00	1	0.200	-	-	-	-	-	-	-	-	-
(MM51) DEMO ECT, MK 143, 600GPF	A		-	-	-	-	-	-	247,000.00	1	0.247	75.36	1,327	0.100	-	-	-	75.36	1,327	0.100
(MM52) DEMO ECT, MK144, 1200GPF	A		-	-	-	-	-	-	250,000.00	1	0.250	75.36	2,906	0.219	-	-	-	75.36	2,906	0.219

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force</b>															<b>Date:</b> February 2015				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3011F / 01 / 15								<b>P-1 Line Item Number / Title:</b> 355450 / Explosive Ordnance Disposal (EOD)							<b>Aggregated Items Title:</b> Explosive Ordnance Disposal (EOD)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)
(MM53) - DEMO ECT, MK145, 2400GPF	A		-	-	-	35.38	5,653	0.200	56.82	704	0.040	-	-	-	-	-	-	-	-	-
(MM54) - EXPLOSIVE CUTTING TAPE	A		-	-	-	54.61	7,325	0.400	55.19	18,119	1.000	55.80	5,376	0.300	-	-	-	55.80	5,376	0.300
(MN07) - N/E 70FT DELAY SHOCK TUBE	A		-	-	-	18.37	2,613	0.048	18.56	431	0.008	18.78	426	0.008	-	-	-	18.78	426	0.008
(MN06) M14 SET UP, N/E CAP WITH TIME FUZE	A		-	-	-	-	-	-	9.13	5,476	0.050	9.29	1,076	0.010	-	-	-	9.29	1,076	0.010
(MN08) - IGNITER TIME BLASTING	A		-	-	-	8.40	59,524	0.500	8.98	55,679	0.500	10.15	49,261	0.500	-	-	-	10.15	49,261	0.500
(MN82) - SEMTEX A	A		-	-	-	-	-	-	17.83	1,963	0.035	-	-	-	-	-	-	-	-	-
(MN85) - DYNAMITE, 75% AMMON NITRATE	A		-	-	-	2.19	1,370	0.003	-	-	-	-	-	-	-	-	-	-	-	-
(MN88) - SHOCK TUBE W/BLASTING CAP 500	A		-	-	-	50.45	40,040	2.020	-	-	-	-	-	-	-	-	-	-	-	-
(MN90) - M-13 1,000 FT SHOCK TUBE W/ CAP M23	A		-	-	-	87.34	1,145	0.100	-	-	-	-	-	-	-	-	-	-	-	-
(YY34) - SHOCK TUBE	A		-	-	-	0.49	40,816	0.020	0.50	40,000	0.020	0.51	39,216	0.020	-	-	-	0.51	39,216	0.020
MK209	A		-	-	-	-	-	-	500,000.00	1	0.500	400,000.00	1	0.400	-	-	-	400,000.00	1	0.400
RT 4 N/L	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEMOLITION REMOTE FIRING DEVICE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Uncategorized</i>			-	-	-	-	-	7.531	-	-	6.925	-	-	5.612	-	-	-	-	-	5.612
<b>Total</b>			-	-	-	-	-	7.531	-	-	6.925	-	-	5.612	-	-	-	-	-	5.612

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force	<b>Date:</b> February 2015
--	----------------------------

<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
--	--

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.499	0.494	0.503	-	0.503	0.513	0.522	0.532	0.537	-	3.600
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	0.499	0.494	0.503	-	0.503	0.513	0.522	0.532	0.537	-	3.600
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	0.499	0.494	0.503	-	0.503	0.513	0.522	0.532	0.537	-	3.600
<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 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.

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

The FY2016 funding request was reduced by \$.399 million to account for the availability of prior execution balances.

# UNCLASSIFIED

**Exhibit P-40, Budget Line Item Justification:** PB 2016 Air Force **Date:** February 2015

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

**P-1 Line Item Number / Title:**  
355900 / SPARES AND REPAIR PARTS

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
MISC. LOW COST INITIAL SPARES	P-40a	A	- / -	- / 0.499	- / 0.494	- / 0.503	- / -	- / 0.503
<b>Total Gross/Weapon System Cost</b>			- / -	- / 0.499	- / 0.494	- / 0.503	- / -	- / 0.503

\*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 add due to rounding.

## Justification:

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

Items requested in FY2016 are identified on the following P-40A and are representative of items to be procured.



UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
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				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	-	-	0.499	-	-	0.494	-	-	0.503	-	-	-	-	-	0.503
Subtotal: Uncategorized			-	-	-	-	-	0.499	-	-	0.494	-	-	0.503	-	-	-	-	-	0.503
Total			-	-	-	-	-	0.499	-	-	0.494	-	-	0.503	-	-	-	-	-	0.503

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force										<b>Date:</b> February 2015		
<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>					<b>Other Related Program Elements:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.480	1.610	1.012	-	1.012	1.456	1.405	1.275	1.299	-	8.537
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	0.480	1.610	1.012	-	1.012	1.456	1.405	1.275	1.299	-	8.537
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>0.480</b>	<b>1.610</b>	<b>1.012</b>	-	<b>1.012</b>	<b>1.456</b>	<b>1.405</b>	<b>1.275</b>	<b>1.299</b>	-	<b>8.537</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>  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.</p> <p>PE associated with this P-1 line is 0208030F.</p> <p>The FY2016 funding request was reduced by \$.384 million to account for the availability of prior execution balances.</p>												
<p><b>Justification:</b>  The FY2016 funding request reflects estimated costs based on historical funding requirements and projected future requirements.</p>												

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force										<b>Date:</b> February 2015		
<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>					<b>Other Related Program Elements:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	7.353	4.237	3.044	-	3.044	4.458	4.561	4.667	4.751	-	33.071
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	7.353	4.237	3.044	-	3.044	4.458	4.561	4.667	4.751	-	33.071
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	-	<b>7.353</b>	<b>4.237</b>	<b>3.044</b>	-	<b>3.044</b>	<b>4.458</b>	<b>4.561</b>	<b>4.667</b>	<b>4.751</b>	-	<b>33.071</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>            This category includes various munitions items to support air base ground defense, air rescue and aircrew/ground training.</p> <p>All items listed on the following P-40A have an annual procurement value of less than \$5 million 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>PEs associated with this P-1 Line are 0207580F, 0207599F and 0207040F.</p> <p>The FY2016 funding request was reduced by \$1.300 million to account for the availability of prior execution balances.</p>												

**UNCLASSIFIED**

Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items				P-1 Line Item Number / Title: 355990 / ITEMS LESS THAN \$5 MILLION				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
(G878) FUZE, GRENADE HAND, PRAC	P-40a	A	- / -	23,529 / 0.200	22,272 / 0.200	- / 0.075	- / -	- / 0.075
(G881) GRN, HAND PRAC M228	P-40a	A	- / -	12,143 / 0.400	1,649 / 0.100	2,705 / 0.150	- / -	2,705 / 0.150
(G940) GRENADE, SMOKE, GREEN M18	P-40a	A	- / -	17,508 / 0.728	5,410 / 0.272	4,833 / 0.250	- / -	4,833 / 0.250
(G945) GRENADE, SMOKE, YELLOW	P-40a	A	- / -	4,665 / 0.250	3,505 / 0.200	2,740 / 0.150	- / -	2,740 / 0.150
(G950) GRENADE, SMOKE, RED	P-40a	A	- / -	- / -	- / -	8,566 / 0.500	- / -	8,566 / 0.500
(G955) GRENADE, SMOKE, VIOLET M18	P-40a	A	- / -	4,506 / 0.200	2,053 / 0.100	4,385 / 0.250	- / -	4,385 / 0.250
(GG04) GRENADE, NON-LETHAL MODEL 9590	P-40a	A	- / -	7,179 / 0.280	11,731 / 0.481	766 / 0.025	- / -	766 / 0.025
(GG09) GRENADE, HAND NON-LETHAL	P-40a	A	- / -	1,999 / 1.000	- / -	- / -	- / -	- / -
(KM02) PEPPER SPRAY, POCKET	P-40a	A	- / -	2,110 / 0.020	- / -	- / -	- / -	- / -
(L594) SIMULATOR, GROUND BURST M115A2	P-40a	A	- / -	5,263 / 0.100	8,463 / 0.200	2,266 / 0.050	- / -	2,266 / 0.050
(L601) SIMULATOR, HAND GRENADE M116A1	P-40a	A	- / -	27,053 / 0.550	12,847 / 0.300	10,357 / 0.200	- / -	10,357 / 0.200
(GG36) GRENADE, MK20 FLASH NONLETHAL	P-40a	A	- / -	- / -	20,933 / 1.570	8,453 / 0.634	- / -	8,453 / 0.634
(LA51) SIMULATOR, SMALL ARMS FIRE	P-40a	A	- / -	- / -	11,990 / 0.100	8,333 / 0.070	- / -	8,333 / 0.070
(LA52) SIMULATOR, SMALL ARMS FIRE	P-40a	A	- / -	- / -	11,933 / 0.100	8,293 / 0.070	- / -	8,293 / 0.070
NUCLEAR TRAINERS	P-40a	A	- / -	- / 0.791	- / 0.614	- / 0.620	- / -	- / 0.620
ALE 50	P-40a	A	- / -	- / 2.834	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / -	- / 7.353	- / 4.237	- / 3.044	- / -	- / 3.044
*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 add due to rounding.								
Justification: FY2016 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.  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.								

**UNCLASSIFIED**

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015					
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					
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.																				
Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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																				
(G878) FUZE, GRENADE HAND, PRAC	A		-	-	-	8.50	23,529	0.200	8.98	22,272	0.200	-	-	0.075	-	-	-	-	-	0.075
(G881) GRN, HAND PRAC M228	A		-	-	-	32.94	12,143	0.400	60.64	1,649	0.100	55.45	2,705	0.150	-	-	-	55.45	2,705	0.150
(G940) GRENADE, SMOKE, GREEN M18	A		-	-	-	41.58	17,508	0.728	50.27	5,410	0.272	51.72	4,833	0.250	-	-	-	51.73	4,833	0.250
(G945) GRENADE, SMOKE, YELLOW	A		-	-	-	53.58	4,665	0.250	57.05	3,505	0.200	54.74	2,740	0.150	-	-	-	54.74	2,740	0.150
(G950) GRENADE, SMOKE, RED	A		-	-	-	-	-	-	-	-	-	58.37	8,566	0.500	-	-	-	58.37	8,566	0.500
(G955) GRENADE, SMOKE, VIOLET M18	A		-	-	-	44.38	4,506	0.200	48.69	2,053	0.100	57.01	4,385	0.250	-	-	-	57.01	4,385	0.250
(GG04) GRENADE, NON-LETHAL MODEL 9590	A		-	-	-	39.00	7,179	0.280	41.00	11,731	0.481	32.61	766	0.025	-	-	-	32.64	766	0.025
(GG09) GRENADE, HAND NON-LETHAL	A		-	-	-	500.21	1,999	1.000	-	-	-	-	-	-	-	-	-	-	-	-
(KM02) PEPPER SPRAY, POCKET	A		-	-	-	9.48	2,110	0.020	-	-	-	-	-	-	-	-	-	-	-	-
(L594) SIMULATOR, GROUND BURST M115A2	A		-	-	-	19.00	5,263	0.100	23.63	8,463	0.200	22.07	2,266	0.050	-	-	-	22.07	2,266	0.050
(L601) SIMULATOR, HAND GRENADE M116A1	A		-	-	-	20.33	27,053	0.550	23.35	12,847	0.300	19.31	10,357	0.200	-	-	-	19.31	10,357	0.200
(GG36) GRENADE, MK20 FLASH NONLETHAL	A		-	-	-	-	-	-	75.00	20,933	1.570	75.00	8,453	0.634	-	-	-	75.00	8,453	0.634
(LA51) SIMULATOR, SMALL ARMS FIRE	A		-	-	-	-	-	-	8.34	11,990	0.100	8.40	8,333	0.070	-	-	-	8.40	8,333	0.070
(LA52) SIMULATOR, SMALL ARMS FIRE	A		-	-	-	-	-	-	8.38	11,933	0.100	8.44	8,293	0.070	-	-	-	8.44	8,293	0.070
NUCLEAR TRAINERS	A		-	-	-	-	-	0.791	-	-	0.614	-	-	0.620	-	-	-	-	-	0.620
ALE 50	A		-	-	-	-	-	2.834	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	7.353	-	-	4.237	-	-	3.044	-	-	-	-	-	3.044
Total			-	-	-	-	-	7.353	-	-	4.237	-	-	3.044	-	-	-	-	-	3.044

UNCLASSIFIED

THIS PAGE INTENTIONALLY LEFT BLANK

UNCLASSIFIED



**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force									<b>Date:</b> February 2015			
<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>					<b>Other Related Program Elements:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	63.634	103.296	120.935	11.064	131.999	132.759	115.686	126.941	119.286	-	793.601
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	-	63.634	103.296	120.935	11.064	131.999	132.759	115.686	126.941	119.286	-	793.601
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>63.634</b>	<b>103.296</b>	<b>120.935</b>	<b>11.064</b>	<b>131.999</b>	<b>132.759</b>	<b>115.686</b>	<b>126.941</b>	<b>119.286</b>	-	<b>793.601</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:**  
FY2014 funding includes \$14.973M appropriated for Overseas Contingency Operations.  
  
FY2015 funding includes \$19.136M appropriated for Overseas Contingency Operations.  
  
FY2016 funding includes \$11.064M requested 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, and AC-130 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 A-10, F-15 and F-16 aircraft against heat seeking missiles. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.  
  
-(L463) MJU-7 IR Flare is an infrared countermeasures flare applicable to the F-15 and F-16 aircraft. It creates an infrared signature and acts as a decoy against heat seeking missiles. The flare pyrotechnic candle is ejected from the ALE-40 dispenser by a small explosive BBU-36 Impulse Cartridge contained in the flare case. 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 alone or 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.  
  
-(LA43) MJU-64 is a hermetically sealed aluminum case purged with nitrogen containing a payload of stacked special material elements which react to air. When deployed into the air stream, the special material reacts to emit an infrared signal to decoy infrared seeking missiles. This flare is required to provide the C-130 and A-10 aircraft, HH-53 and HH-60 helicopters protection against advanced air-to-air and surface-to-air infrared weapon systems. This item is procured by Ogden ALC from the Navy.

# UNCLASSIFIED

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force		<b>Date:</b> February 2015
<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>	<b>Other Related Program Elements:</b>
<p>-(LA61) MJU-66 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 against advanced air-to-air and surface-to-air infrared weapon systems. It is a one-piece aluminum case containing a payload of advanced special material elements, loaded into a multiple jettison unit magazine installed on a countermeasure dispenser. When deployed into the air stream, the special material reacts to emit an infrared signal to decoy infrared seeking missiles.</p> <p>-(LA67) MJU-71 IR Flare is a magnesium based thrusted flare used in a cocktail mix of flares on aircraft to improve the dispense patterns and effectiveness of the countermeasures against heat-seeking missile threats. The 1x1x8 inch size provides better protection of the aircraft and flight crew. Other versions of thrusted flares are larger and use more space in the flare dispensers, severely limiting the number of ejection events. Initially approved for use on the C-130, A-10 and F-16 aircraft with on-going tests for use on other platforms. This item is procured by Ogden ALC.</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>-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: 0207224F, 0208030F and 0207599F.</p>		

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force	<b>Date:</b> February 2015
--	----------------------------

<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
---	---

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
(L410) M206 FLARE	P-5, P-5a		- / -	- / 22.000	- / 25.645	- / 25.853	- / -	- / 25.853
(LA21) MJU-53/B INFRARED COUNTERMEASURE FLARE	P-40a	A	- / -	107,040 / 8.028	165,883 / 12.574	208,117 / 15.946	72,200 / 5.532	280,317 / 21.478
(LA36) MJU-62 IR CM FLARE	P-40a	A	- / -	- / -	26,020 / 5.100	40,202 / 7.960	- / -	40,202 / 7.960
(LA68) MJU-68 IR CM FLARE	P-40a	A	- / -	5,000 / 2.500	10,000 / 5.000	10,000 / 5.000	- / -	10,000 / 5.000
(L463) MJU-7A/B, IR FLARE	P-5, P-5a		- / -	- / 5.000	- / 7.000	- / 26.171	- / -	- / 26.171
(L554) MARKER, LOCATION MARINE MK25	P-40a	A	- / -	- / -	- / -	- / -	- / -	- / -
(LA19) MJU-50 (4.2g) FLARE	P-40a	A	- / -	32,499 / 2.000	- / -	- / -	- / -	- / -
(LA21) MJU-53 FLARE, IR COUNTERMEASURE	P-40a	A	- / -	- / -	- / -	- / -	- / -	- / -
(LY12) ALA-17 INFRARED CM ACFT FLARE	P-40a	A	- / -	- / -	1,813 / 1.100	- / -	- / -	- / -
(L461) MJU-10 FLARE	P-5, P-5a		- / -	- / 9.000	- / 14.177	- / 10.000	- / -	- / 10.000
(LA61) MJU-66 CM ACFT Flare	P-40a	A	- / -	41,542 / 7.321	39,000 / 7.800	- / 6.490	26,854 / 5.532	26,854 / 12.022
(LA67) FLARE, IR, CM (MJU-71/B)	P-40a	A	- / -	7,737 / 5.285	29,051 / 19.900	26,225 / 18.515	- / -	26,225 / 18.515
(LA69) MJU-69 IR CM FLARE	P-40a	A	- / -	5,000 / 2.500	10,000 / 5.000	10,000 / 5.000	- / -	10,000 / 5.000
<b>Total Gross/Weapon System Cost</b>			- / -	- / 63.634	- / 103.296	- / 120.935	- / 11.064	- / 131.999

\*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 add due to rounding.

**Justification:**  
FY2016 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 to protect the warfighter against advanced air-to-air and ground-to-air infrared and heat seeking attack weapon systems and missiles.

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

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force													Date: February 2015								
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) :										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
Procurement Quantity <i>(Units in Each)</i>				-			-			-			-			-			-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-			22.000			25.645			25.853			-			25.853		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P1) <i>(\$ in Millions)</i>				-			22.000			25.645			25.853			-			25.853		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				-			22.000			25.645			25.853			-			25.853		
(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 add, due to rounding.																					
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>	-	-	-	30.00	718,225	21.547	36.00	697,955	25.126	36.00	704,158	25.350	-	-	-	36.00	704,158	25.350			
Subtotal: Recurring Cost	-	-	-	-	-	21.547	-	-	25.126	-	-	25.350	-	-	-	-	-	25.350			
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	21.547	-	-	25.126	-	-	25.350	-	-	-	-	-	25.350			
Support - Support End Item Cost																					
PRODUCTION ENGINEERING	-	-	-	-	-	0.447	-	-	0.513	-	-	0.497	-	-	-	-	-	0.497			
QUALITY ASSURANCE	-	-	-	-	-	0.006	-	-	0.006	-	-	0.006	-	-	-	-	-	0.006			
Subtotal: Support - Support End Item Cost	-	-	-	-	-	0.453	-	-	0.519	-	-	0.503	-	-	-	-	-	0.503			
Gross/Weapon System Cost	-	-	-	-	-	22.000	-	-	25.645	-	-	25.853	-	-	-	-	-	25.853			
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																					

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2016 Air Force								<b>Date:</b> February 2015				
<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		2014	KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA	MIPR	AFLCMC Hill AFB	Apr 2014	Feb 2015	718,225	30.00	Y		
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		

**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.

# UNCLASSIFIED

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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> (LA21) MJU-53/B IR CM FLARE				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	75.00	107,040	8.028	75.80	165,883	12.574	76.62	208,117	15.946	76.62	72,200	5.532	76.62	280,317	21.478
Subtotal: Uncategorized			-	-	-	-	-	8.028	-	-	12.574	-	-	15.946	-	-	5.532	-	-	21.478
Total			-	-	-	-	-	8.028	-	-	12.574	-	-	15.946	-	-	5.532	-	-	21.478

## Remarks:

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

# UNCLASSIFIED

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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> (LA36) MJU-62/B IR CM FLARE				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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	26,020	5.100	198.00	40,202	7.960	-	-	-	198.00	40,202	7.960
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	5.100	-	-	7.960	-	-	-	-	-	7.960
Total			-	-	-	-	-	-	-	-	5.100	-	-	7.960	-	-	-	-	-	7.960

**Remarks:**

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

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
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				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	500.00	5,000	2.500	500.00	10,000	5.000	500.00	10,000	5.000	-	-	-	500.00	10,000	5.000
Subtotal: Uncategorized			-	-	-	-	-	2.500	-	-	5.000	-	-	5.000	-	-	-	-	-	5.000
Total			-	-	-	-	-	2.500	-	-	5.000	-	-	5.000	-	-	-	-	-	5.000

Remarks:  
The MJU-68 Infrared Countermeasure Flare is purchased by the Munitions Division, AFMC. Unit prices are estimates from industry.



**UNCLASSIFIED**

<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Air Force														<b>Date:</b> February 2015				
<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				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :										<b>MDAP/MAIS Code:</b>								
<b>Resource Summary</b>				<b>Prior Years</b>		<b>FY 2014</b>		<b>FY 2015</b>		<b>FY 2016 Base</b>		<b>FY 2016 OCO</b>		<b>FY 2016 Total</b>				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		5.000		7.000		26.171		-		26.171				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				-		5.000		7.000		26.171		-		26.171				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>				-		<b>5.000</b>		<b>7.000</b>		<b>26.171</b>		-		<b>26.171</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 add, due to rounding.																		
<b>Cost Elements</b>	<b>Prior Years</b>			<b>FY 2014</b>			<b>FY 2015</b>			<b>FY 2016 Base</b>			<b>FY 2016 OCO</b>			<b>FY 2016 Total</b>		
	<b>Unit Cost</b> <i>(\$)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>	<b>Unit Cost</b> <i>(\$)</i>	<b>Qty</b> <i>(Each)</i>	<b>Total Cost</b> <i>(\$ M)</i>
Hardware - Hardware End Item Cost																		
Recurring Cost																		
MJU-7A/B IR FLARE - L463 <sup>(†)</sup>	-	-	-	52.00	96,002	4.992	59.90	116,751	6.993	61.00	428,979	26.168	-	-	-	61.00	428,979	26.168
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	4.992	-	-	6.993	-	-	26.168	-	-	-	-	-	26.168
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	4.992	-	-	6.993	-	-	26.168	-	-	-	-	-	26.168
Support - Support End Item Cost																		
QUALITY ASSURANCE	-	-	-	-	-	0.008	-	-	0.007	-	-	0.003	-	-	-	-	-	0.003
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.008	-	-	0.007	-	-	0.003	-	-	-	-	-	0.003
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	<b>5.000</b>	-	-	<b>7.000</b>	-	-	<b>26.171</b>	-	-	-	-	-	<b>26.171</b>
<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.  <sup>(†)</sup> indicates the presence of a P-5a																		

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2016 Air Force								<b>Date:</b> February 2015				
<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		2014	KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA	MIPR	AFLCMC Hill AFB	Nov 2014	Nov 2015	96,002	52.00	Y		
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	428,979	61.00	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.

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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> FLARES (ITEMS LESS THAN \$5 MILLION)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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																				
(L554) MARKER, LOCATION MARINE MK25	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(LA19) MJU-50 (4.2g) FLARE	A		-	-	-	61.54	32,499	2.000	-	-	-	-	-	-	-	-	-	-	-	
(LA21) MJU-53 FLARE, IR COUNTERMEASURE	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(LY12) ALA-17 INFRARED CM ACFT FLARE	A		-	-	-	-	-	-	606.73	1,813	1.100	-	-	-	-	-	-	-	-	
Subtotal: Uncategorized			-	-	-	-	-	2.000	-	-	1.100	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	2.000	-	-	1.100	-	-	-	-	-	-	-	-	

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force													Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16							P-1 Line Item Number / Title: 356010 / FLARES						Item Number / Title [DODIC]: - / (L461) MJU-10 FLARE								
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
Procurement Quantity <i>(Units in Each)</i>				-			-			-			-			-			-		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-			9.000			14.177			10.000			-			10.000		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P1) <i>(\$ in Millions)</i>				-			9.000			14.177			10.000			-			10.000		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				-			9.000			14.177			10.000			-			10.000		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																					
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>		-	-	-	166.00	54,193	8.996	210.90	67,205	14.174	215.00	46,481	9.994	-	-	-	215.00	46,481	9.994		
Subtotal: Recurring Cost		-	-	-	-	-	8.996	-	-	14.174	-	-	9.994	-	-	-	-	-	9.994		
Subtotal: Hardware - Hardware End Item Cost		-	-	-	-	-	8.996	-	-	14.174	-	-	9.994	-	-	-	-	-	9.994		
Support - Support End Item Cost																					
QUALITY ASSURANCE		-	-	-	-	-	0.004	-	-	0.003	-	-	0.006	-	-	-	-	-	0.006		
Subtotal: Support - Support End Item Cost		-	-	-	-	-	0.004	-	-	0.003	-	-	0.006	-	-	-	-	-	0.006		
Gross/Weapon System Cost		-	-	-	-	-	9.000	-	-	14.177	-	-	10.000	-	-	-	-	-	10.000		
Remarks: The Single Manager for Conventional Ammunition (SMCA), Department of Army provides this cost analysis with estimates obtained from industry based on quantity range matrices and forecasted cost of materials.  <sup>(†)</sup> indicates the presence of a P-5a																					

**UNCLASSIFIED**

<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2016 Air Force								<b>Date:</b> February 2015				
<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				
<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 <i>(Each)</i></b>	<b>Unit Cost <i>(\$)</i></b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
MJU-10 FLARE - L461		2014	KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA	MIPR	AFLCMC Hill AFB	Nov 2014	Nov 2015	54,193	166.00	Y		
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		
<b>Remarks:</b> 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**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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 CM ACFT Flare	A		-	-	-	176.23	41,542	7.321	200.00	39,000	7.800	-	-	6.490	206.00	26,854	5.532	447.68	26,854	12.022
Subtotal: Uncategorized			-	-	-	-	-	7.321	-	-	7.800	-	-	6.490	-	-	5.532	-	-	12.022
Total			-	-	-	-	-	7.321	-	-	7.800	-	-	6.490	-	-	5.532	-	-	12.022

**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.

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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)				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	683.00	7,737	5.285	684.99	29,051	19.900	706.01	26,225	18.515	-	-	-	706.01	26,225	18.515	
Subtotal: Uncategorized			-	-	-	-	-	5.285	-	-	19.900	-	-	18.515	-	-	-	-	-	18.515	
Total			-	-	-	-	-	5.285	-	-	19.900	-	-	18.515	-	-	-	-	-	18.515	

**Remarks:**

The MJU-71 Infrared Countermeasure Flare is purchased by the Munitions Division, AFMC. Unit prices are estimates from industry.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16								P-1 Line Item Number / Title: 356010 / FLARES							Aggregated Items Title: (LA69) MJU-69/B IR CM FLARE				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	500.00	5,000	2.500	500.00	10,000	5.000	500.00	10,000	5.000	-	-	-	500.00	10,000	5.000
Subtotal: Uncategorized			-	-	-	-	-	2.500	-	-	5.000	-	-	5.000	-	-	-	-	-	5.000
Total			-	-	-	-	-	2.500	-	-	5.000	-	-	5.000	-	-	-	-	-	5.000

Remarks:  
The MJU-69 Infrared Countermeasure Flare is purchased by the Munitions Division, AFMC. Unit prices are estimates from industry.



**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force										<b>Date:</b> February 2015		
<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>				<b>Other Related Program Elements:</b>				
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	81.041	109.265	213.476	7.996	221.472	214.889	153.647	197.707	201.439	-	1,179.460
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	-	81.041	109.265	213.476	7.996	221.472	214.889	153.647	197.707	201.439	-	1,179.460
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>81.041</b>	<b>109.265</b>	<b>213.476</b>	<b>7.996</b>	<b>221.472</b>	<b>214.889</b>	<b>153.647</b>	<b>197.707</b>	<b>201.439</b>	-	<b>1,179.460</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:**  
FY2014 funding includes \$3.859M appropriated for Overseas Contingency Operations.

FY2015 funding includes \$24.848M appropriated for Overseas Contingency Operations.

FY2016 funding includes \$7.996M requested for Overseas Contingency Operations.

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

- FMU-152A/B Joint Programmable Fuze (JPF) (EC11): A Joint AF/Navy multi-function unitary fuze developed and procured for the Joint Direct Attack Munition and other conventional inventory weapons. The Air Force is the lead service for procurement of the JPF. 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 supplement FMU-139D/B, FMU-143G/B, FMU-124, and M904/M905 fuzes, and provide 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. FY2014 funding requested includes \$3.859M for Overseas Contingency Operations. FY2016 funding includes \$3.998M requested for Overseas Contingency Operations.
- The FMU-139D/B will be a new 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. This program is pending RFP release.
- 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. FY2015 \$8.889M Overseas Contingency Operations funding appropriated.
- 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-143, 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 \$8.889M Overseas Contingency Operations funding appropriated. FY2016 funding includes \$3.998M requested for Overseas Contingency Operations.

# UNCLASSIFIED

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force		<b>Date:</b> February 2015
<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>	<b>Other Related Program Elements:</b>
<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 is scheduled to complete MS-C 2Q FY15 &amp; Low-Rate Initial Production (LRIP) award in 2Q 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), 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>PEs associated with this P-1 Line are 0208030F and 0207599F.</p>		

**UNCLASSIFIED**

Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 18: Fuzes				P-1 Line Item Number / Title: 356120 / Fuzes				
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
FMU-152A/B FUZE CURRENT/FOLLOW-ON CONTRACT	P-40a	A	- / -	12,663 / 46.632	17,261 / 65.078	39,225 / 133.700	1,173 / 3.998	40,398 / 137.698
FMU-152A/B PGM SPT	P-40a	A	- / -	- / 2.750	- / 3.243	- / 3.140	- / -	- / 3.140
FMU-139D/B PGM SPT & QUAL TESTING	P-40a	A	- / -	- / 0.021	- / -	- / 8.590	- / -	- / 8.590
FMU-139D/B PROD	P-40a	A	- / 0.000	- / -	- / -	- / -	- / -	- / -
(ED29) FMU-143S/B 60 MIL SEC FUZE	P-5, P-5a		- / -	- / 6.122	- / 9.000	- / 10.000	- / -	- / 10.000
(KY70) DSU-33D/B PROX SENSOR	P-5		- / -	- / 12.514	- / 13.000	- / 14.000	- / 3.998	- / 17.998
FMU-139 NRE	P-40a	A	- / -	- / -	- / 4.664	- / 8.595	- / -	- / 8.595
FMU-139D/B	P-40a	A	- / -	- / -	- / -	- / -	- / -	- / -
FMU-152/B D-2 (EB93)	P-40a	A	- / -	152 / 0.400	- / -	- / -	- / -	- / -
FMU-139 NRE	P-40a	A	- / -	- / 0.021	- / -	- / -	- / -	- / -
FMU-143R/B FUZE (ED30)	P-40a	A	- / -	- / -	481 / 1.000	710 / 4.000	- / -	710 / 4.000
HARD TARGET VOID SENSING FUZE (HTVSF)	P-5		- / -	- / 12.581	- / 13.280	- / 31.451	- / -	- / 31.451
Total Gross/Weapon System Cost			- / -	- / 81.041	- / 109.265	- / 213.476	- / 7.996	- / 221.472
*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 add due to rounding.								

**Justification:**  
FY2016 purchases various fuzes for use with precision guided, penetrator and unguided bombs. The FMU-152A/B 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.

FY16 funds for Hard Target Void Sensing Fuze will be used to fund LRIP Lot #2. Contractually Full Rate Production (FRP) award must be awarded NLT 90 days from LRIP Lot 2 Initial Deliveries. Program 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.

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.

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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> (EC11) FUZE SYSTEM FMU-152A/B JPF				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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-152A/B FUZE CURRENT/FOLLOW-ON CONTRACT	A		-	-	-	3,682.54	12,663	46.632	3,770.21	17,261	65.078	3,408.54	39,225	133.700	3,408.54	1,173	3.998	3,408.54	40,398	137.698
FMU-152A/B PGM SPT	A		-	-	-	-	-	2.750	-	-	3.243	-	-	3.140	-	-	-	-	-	3.140
FMU-139D/B PGM SPT & QUAL TESTING	A		-	-	-	-	-	0.021	-	-	-	-	-	8.590	-	-	-	-	-	8.590
FMU-139D/B PROD	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	49.403	-	-	68.321	-	-	145.430	-	-	3.998	-	-	149.428
Total			-	-	-	-	-	49.403	-	-	68.321	-	-	145.430	-	-	3.998	-	-	149.428

**Remarks:**

A new line has been added for FMU-139D/B joint fuze pgm with the Navy.  
FY15: \$ 4.664M Pgm Office Spt  
FY16: \$ 8.595M Pgm Office Spt/Qual Testing  
FY17: \$33.982M Pgm Office Spt/Qual Testing  
FY18: \$37.480M Production  
FY19: \$70.782M Production  
FY20: \$83.778M Production

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force											Date: February 2015								
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18						P-1 Line Item Number / Title: 356120 / Fuzes						Item Number / Title [DODIC]: - / (ED29) FMU-143S/B 60 MIL SEC FUZE							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total					
Procurement Quantity (Units in Each)				-		-		-		-		-		-					
Gross/Weapon System Cost (\$ in Millions)				-		6.122		9.000		10.000		-		10.000					
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Net Procurement (P1) (\$ in Millions)				-		6.122		9.000		10.000		-		10.000					
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-					
Total Obligation Authority (\$ in Millions)				-		6.122		9.000		10.000		-		10.000					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)				-		-		-		-		-		-					
Gross/Weapon System Unit Cost (\$ in Dollars)				-		-		-		-		-		-					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																			
Cost Elements		Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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>		-	-	-	5,312.00	1,140	6.056	5,446.00	1,386	7.548	5,553.00	1,784	9.907	-	-	-	5,553.00	1,784	9.907
PA60 CONTAINER		-	-	-	23.00	1,197	0.028	55.00	1,455	0.080	30.00	1,873	0.056	-	-	-	30.00	1,873	0.056
PBXN-11		-	-	-	34.00	387	0.013	46.00	471	0.022	47.00	606	0.028	-	-	-	47.00	606	0.028
Subtotal: Recurring Cost		-	-	-	-	-	6.096	-	-	7.650	-	-	9.991	-	-	-	-	-	9.991
Subtotal: Hardware - Hardware End Item Cost		-	-	-	-	-	6.096	-	-	7.650	-	-	9.991	-	-	-	-	-	9.991
Support - Support End Item Cost																			
QUALITY ASSURANCE		-	-	-	-	-	0.026	-	-	-	-	-	0.009	-	-	-	-	-	0.009
FIRST ARTICLE TEST		-	-	-	-	-	-	-	-	1.350	-	-	-	-	-	-	-	-	-
Subtotal: Support - Support End Item Cost		-	-	-	-	-	0.026	-	-	1.350	-	-	0.009	-	-	-	-	-	0.009
Gross/Weapon System Cost		-	-	-	-	-	6.122	-	-	9.000	-	-	10.000	-	-	-	-	-	10.000
Remarks:																			
Prices are provided by the Single Manager for Conventional Ammunition (SMCA), Department of the Army. Prices shown represent the SMCA efforts to obtain hardware, containers, pallets, straps, explosive material, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack the Air Force order. Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).																			
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.																			

UNCLASSIFIED

<b>Exhibit P-5, Cost Analysis:</b> PB 2016 Air Force		<b>Date:</b> February 2015
<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) :		<b>MDAP/MAIS Code:</b>

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

**UNCLASSIFIED**

Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force								Date: February 2015				
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)		2014	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Jun 2015	Jun 2016	1,140	5,312.00	Y		
LOAD, ASSEMBLE, PACK (LAP)		2015	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Jul 2015	Jun 2016	1,386	5,446.00	Y		
LOAD, ASSEMBLE, PACK (LAP)		2016	UNKNOWN / UNKNOWN	MIPR	AFLCMC Hill AFB	Apr 2016	Apr 2017	1,784	5,553.00	Y		

## UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015						
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) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity <i>(Units in Each)</i>				-		-		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				-		12.514		13.000		14.000		3.998		17.998				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P1) <i>(\$ in Millions)</i>				-		12.514		13.000		14.000		3.998		17.998				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				-		12.514		13.000		14.000		3.998		17.998				
(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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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	-	-	-	-	-	12.514	-	-	13.000	-	-	14.000	-	-	3.998	-	-	17.998
Subtotal: Recurring Cost	-	-	-	-	-	12.514	-	-	13.000	-	-	14.000	-	-	3.998	-	-	17.998
Subtotal: Hardware - (KY70) DSU-33D/B PROX SENSOR Cost	-	-	-	-	-	12.514	-	-	13.000	-	-	14.000	-	-	3.998	-	-	17.998
Gross/Weapon System Cost	-	-	-	-	-	12.514	-	-	13.000	-	-	14.000	-	-	3.998	-	-	17.998



UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18								P-1 Line Item Number / Title: 356120 / Fuzes							Aggregated Items Title: FMU-139 NRE				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	-	-	-	-	-	4.664	-	-	8.595	-	-	-	-	-	8.595
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	4.664	-	-	8.595	-	-	-	-	-	8.595
Total			-	-	-	-	-	-	-	-	4.664	-	-	8.595	-	-	-	-	-	8.595

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18							P-1 Line Item Number / Title: 356120 / Fuzes								Aggregated Items Title: FMU-139D/B				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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-139D/B	A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Total			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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> FUZES (ITEMS LESS THAN \$5 MILLION)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	2,631.58	152	0.400	-	-	-	-	-	-	-	-	-	-	-	
FMU-139 NRE	A		-	-	-	-	-	0.021	-	-	-	-	-	-	-	-	-	-	-	
FMU-143R/B FUZE (ED30)	A		-	-	-	-	-	-	2,079.00	481	1.000	5,633.80	710	4.000	-	-	-	5,633.80	710	4.000
Subtotal: Uncategorized			-	-	-	-	-	0.421	-	-	1.000	-	-	4.000	-	-	-	-	-	4.000
Total			-	-	-	-	-	0.421	-	-	1.000	-	-	4.000	-	-	-	-	-	4.000

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015						
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18						P-1 Line Item Number / Title: 356120 / Fuzes						Item Number / Title [DODIC]: - / HARD TARGET VOID SENSING FUZE (HTVSF)						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Resource Summary				Prior Years		FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		12.581		13.280		31.451		-		31.451				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P1) (\$ in Millions)				-		12.581		13.280		31.451		-		31.451				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		12.581		13.280		31.451		-		31.451				
(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 add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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	-	-	-	22,727.78	180	4.091	5,645.48	1,495	8.440	12,198.33	913	11.137	-	-	-	12,198.33	913	11.137
Subtotal: Recurring Cost	-	-	-	-	-	4.091	-	-	8.440	-	-	11.137	-	-	-	-	-	11.137
Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	4.091	-	-	8.440	-	-	11.137	-	-	-	-	-	11.137
Support - Support End Item Cost																		
Program Management Administration	-	-	-	-	-	-	-	-	1.500	-	-	1.500	-	-	-	-	-	1.500
Tech Manuals	-	-	-	-	-	0.145	-	-	0.226	-	-	0.814	-	-	-	-	-	0.814
Engineering Change Order	-	-	-	-	-	0.957	-	-	0.600	-	-	8.500	-	-	-	-	-	8.500
FAAT	-	-	-	-	-	6.500	-	-	0.206	-	-	4.500	-	-	-	-	-	4.500
Tech Support	-	-	-	-	-	0.888	-	-	0.515	-	-	2.500	-	-	-	-	-	2.500
Life Cycle Surveillance Test	-	-	-	-	-	-	-	-	1.793	-	-	2.500	-	-	-	-	-	2.500
Subtotal: Support - Support End Item Cost	-	-	-	-	-	8.490	-	-	4.840	-	-	20.314	-	-	-	-	-	20.314
Gross/Weapon System Cost	-	-	-	-	-	12.581	-	-	13.280	-	-	31.451	-	-	-	-	-	31.451

# UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 02: Weapons / BSA 1: Small Arms							P-1 Line Item Number / Title: 357010 / SMALL ARMS					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements:				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	18.839	24.648	60.097	-	60.097	37.727	33.586	34.201	34.846	-	243.944
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	18.839	24.648	60.097	-	60.097	37.727	33.586	34.201	34.846	-	243.944
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	18.839	24.648	60.097	-	60.097	37.727	33.586	34.201	34.846	-	243.944
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-	-	-	-	-	-	-
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.  The new DoD Modular Handgun System (MHS) will be a Non-Developmental Item/Commercial Off-the-Shelf (NDI/COTS) handgun in a caliber equal to or greater than 9mm with enhanced ammunition, concealable pistol variants, extended magazines and flash/sound suppression kits. The material solution will be realized through a fielding initiative designed to equip USAF personnel with modern handguns that will replace all current inventory of handguns and create a common sidearm platform with various modular components for operational needs. The MHS will incorporate modern designs and technology available for increased lifespan, lighter weight and improved functioning while allowing it to be rapidly changed in configuration to allow full-spectrum mission enhancement and completion with a common handgun.												
PEs associated with this P-1 line are 0207227F, 0207580F, 0408011F and 0804731F.												

**UNCLASSIFIED**

Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force		Date: February 2015
<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
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
<div></div>		

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Line Item Justification:</b> PB 2016 Air Force	<b>Date:</b> February 2015
--	----------------------------

<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
---	---

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	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)
AN/PAS-13E(V)2 Thermal Weapon Sight	P-40a	A	- / -	1,053 / 5.573	2,826 / 14.954	- / -	- / -	- / -
M320A1 (40MM GRENADE LAUNCHER)	P-40a	A	- / -	- / -	1,269 / 5.446	4,660 / 20.000	- / -	4,660 / 20.000
M4 CARBINE (5.56mm)	P-5, P-5a		- / -	- / 4.813	- / 0.090	- / 1.443	- / -	- / 1.443
MODULAR HANDGUN SYSTEM	P-40a	A	- / -	- / -	- / -	42,000 / 35.000	- / -	42,000 / 35.000
PAS13Dv3 Thermal Sight Heavy	P-40a	A	- / -	57 / 0.322	- / -	- / -	- / -	- / -
PSQ-23 Storm MLFR RNGE Finder	P-40a	A	- / 0.000	- / -	- / -	- / -	- / -	- / -
Night Vision PVS-30	P-40a	A	- / -	- / -	- / -	70 / 0.500	- / -	70 / 0.500
M2A1 (.50 Cal Machine Gun)	P-40a	A	- / -	- / -	- / -	20 / 0.250	- / -	20 / 0.250
M240B Machinegun (7.62mm)	P-40a	A	- / -	110 / 1.200	- / -	50 / 0.350	- / -	50 / 0.350
M110 SASS	P-40a	A	- / -	52 / 0.668	- / -	- / -	- / -	- / -
M107 Sniper Rifle (.50 cal)	P-40a	A	- / -	89 / 1.108	15 / 0.182	8 / 0.100	- / -	8 / 0.100
M24 Sniper Rifle (7.26mm)	P-40a	A	- / -	- / -	- / -	14 / 0.100	- / -	14 / 0.100
M4A1 Carbine (5.56mm - Auto)	P-40a	A	- / -	- / -	100 / 0.090	555 / 0.500	- / -	555 / 0.500
Modular Combat Shotgun (12 Ga)	P-40a	A	- / -	24 / 0.019	25 / 0.020	25 / 0.020	- / -	25 / 0.020
M9 Pistol (9mm)	P-40a	A	- / -	2,500 / 1.699	2,500 / 1.700	- / -	- / -	- / -
M11 Compact Pistol (9mm)	P-40a	A	- / -	30 / 0.025	150 / 0.126	- / -	- / -	- / -
M150	P-40a	A	- / -	1,725 / 2.129	500 / 0.600	- / -	- / -	- / -
MOD PROJECTS PARTS PROCUREMENT	P-40a	A	- / -	- / 0.392	- / 0.350	- / 0.350	- / -	- / 0.350
FIRST DESTINATION TRANSPORTATION	P-40a	A	- / -	- / 0.433	- / 0.635	- / 0.800	- / -	- / 0.800
PMA- OTHER GOVERNMENT COST	P-40a	A	- / -	- / 0.054	- / 0.050	- / 0.081	- / -	- / 0.081
PMA- CONTRACTOR SERVICES	P-40a	A	- / -	- / 0.403	- / 0.405	- / 0.603	- / -	- / 0.603
<b>Total Gross/Weapon System Cost</b>			- / -	- / 18.839	- / 24.648	- / 60.097	- / -	- / 60.097

\*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 add due to rounding.

**Justification:**

FY2016 funding procures M4 Carbines, M320A1 (40mm Grenade Launchers), and Modular Handgun Systems (MHS), M107 Sniper Rifles, M4A1 Carbines (5.56MM auto), Modular Combat Shotguns (12Ga), M240B Machineguns (7.62mm), M24 Sniper Rifles, M2A1 50 cal machine guns, Night Vision PVS-30, Mod projects parts procurement, Transportation, and PMA dollars in support of installation and unit mission requirements for Air Force Personnel.

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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> AN/PAS-13E (v)2				

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

Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	5,291.58	1,053	5.573	5,291.58	2,826	14.954	-	-	-	-	-	-	-	-	
Subtotal: AN/ PAS-13E(V)2			-	-	-	-	-	5.573	-	-	14.954	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	5.573	-	-	14.954	-	-	-	-	-	-	-	-	

**Remarks:**

Unit cost for FY16 are assumed and subject to change.



UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1								P-1 Line Item Number / Title: 357010 / SMALL ARMS							Aggregated Items Title: M320A1				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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		-	-	-	-	-	-	4,291.57	1,269	5.446	4,291.85	4,660	20.000	-	-	-	4,291.85	4,660	20.000
Subtotal: Uncategorized			-	-	-	-	-	-	-	-	5.446	-	-	20.000	-	-	-	-	-	20.000
Total			-	-	-	-	-	-	-	-	5.446	-	-	20.000	-	-	-	-	-	20.000

Remarks:  
Unit costs for FY16 are assumed and are subject to change.

**UNCLASSIFIED**

Exhibit P-5, Cost Analysis: PB 2016 Air Force													Date: February 2015								
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) :										MDAP/MAIS Code:											
Resource Summary				Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
Procurement Quantity (Units in Each)				-			-			-			-			-			-		
Gross/Weapon System Cost (\$ in Millions)				-			4.813			0.090			1.443			-			1.443		
Less PY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Net Procurement (P1) (\$ in Millions)				-			4.813			0.090			1.443			-			1.443		
Plus CY Advance Procurement (\$ in Millions)				-			-			-			-			-			-		
Total Obligation Authority (\$ in Millions)				-			4.813			0.090			1.443			-			1.443		
(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 add, due to rounding.																					
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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	5,347	4.813	900.00	100	0.090	900.00	1,603	1.443	-	-	-	900.19	1,603	1.443			
Subtotal: Support - Support End Item Cost	-	-	-	-	-	4.813	-	-	0.090	-	-	1.443	-	-	-	-	-	1.443			
Gross/Weapon System Cost	-	-	-	-	-	4.813	-	-	0.090	-	-	1.443	-	-	-	-	-	1.443			
Remarks: Unit costs for FY16 are assumed and subject to change.																					
(†) indicates the presence of a P-5a																					

**UNCLASSIFIED**

Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force								Date: February 2015				
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)				
Cost Elements	OCO	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
M4 CARBINE (5.56mm)		2014	FN MANUFACTURING / COLUMBIA, SC	MIPR	ARMY/ACC	Oct 2014	Sep 2016	5,347	900.00	Y		
M4 CARBINE (5.56mm)		2015	FN MANUFACTURING / COLUMBIA, SC	MIPR	ARMY/ACC	Oct 2015	Dec 2016	100	900.00	Y		
M4 CARBINE (5.56mm)		2016	FN MANUFACTURING / COLUMBIA, SC	MIPR	ARMY/ACC	Oct 2016	Jan 2017	1,603	900.00	Y		

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1								P-1 Line Item Number / Title: 357010 / SMALL ARMS							Aggregated Items Title: Modular Handgun System (MHS)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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)				
Modular Handgun System																								
MODULAR HANDGUN SYSTEM	A		-	-	-	-	-	-	-	-	-	833.33	42,000	35.000	-	-	-	833.33	42,000	35.000				
Subtotal: Modular Handgun System			-	-	-	-	-	-	-	-	-	-	-	35.000	-	-	-	-	-	35.000				
Total			-	-	-	-	-	-	-	-	-	-	-	35.000	-	-	-	-	-	35.000				

**UNCLASSIFIED**

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force															<b>Date:</b> February 2015				
<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 \$5 MILLION)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 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																				
PAS13Dv3 Thermal Sight Heavy	A		-	-	-	5,643.53	57	0.322	-	-	-	-	-	-	-	-	-	-	-	
PSQ-23 Storm MLFR RNGE Finder	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Night Vision PVS-30	A		-	-	-	-	-	-	-	-	-	7,142.88	70	0.500	-	-	-	7,142.88	70	0.500
M2A1 (.50 Cal Machine Gun)	A		-	-	-	-	-	-	-	-	-	12,500.00	20	0.250	-	-	-	12,500.00	20	0.250
M240B Machinegun (7.62mm)	A		-	-	-	10,909.09	110	1.200	-	-	-	7,000.00	50	0.350	-	-	-	7,000.00	50	0.350
M110 SASS	A		-	-	-	12,847.70	52	0.668	-	-	-	-	-	-	-	-	-	-	-	-
M107 Sniper Rifle (.50 cal)	A		-	-	-	12,453.22	89	1.108	12,133.33	15	0.182	12,500.00	8	0.100	-	-	-	12,500.00	8	0.100
M24 Sniper Rifle (7.26mm)	A		-	-	-	-	-	-	-	-	-	7,142.86	14	0.100	-	-	-	7,142.86	14	0.100
M4A1 Carbine (5.56mm - Auto)	A		-	-	-	-	-	-	900.00	100	0.090	900.90	555	0.500	-	-	-	900.00	555	0.500
Modular Combat Shotgun (12 Ga)	A		-	-	-	804.20	24	0.019	800.00	25	0.020	800.00	25	0.020	-	-	-	800.00	25	0.020
M9 Pistol (9mm)	A		-	-	-	679.58	2,500	1.699	680.00	2,500	1.700	-	-	-	-	-	-	-	-	-
M11 Compact Pistol (9mm)	A		-	-	-	846.40	30	0.025	840.00	150	0.126	-	-	-	-	-	-	-	-	-
M150	A		-	-	-	1,234.35	1,725	2.129	1,200.00	500	0.600	-	-	-	-	-	-	-	-	-
MOD PROJECTS PARTS PROCUREMENT	A		-	-	-	-	-	0.392	-	-	0.350	-	-	0.350	-	-	-	-	-	0.350
FIRST DESTINATION TRANSPORTATION	A		-	-	-	-	-	0.433	-	-	0.635	-	-	0.800	-	-	-	-	-	0.800
PMA- OTHER GOVERNMENT COST	A		-	-	-	-	-	0.054	-	-	0.050	-	-	0.081	-	-	-	-	-	0.081
PMA- CONTRACTOR SERVICES	A		-	-	-	-	-	0.403	-	-	0.405	-	-	0.603	-	-	-	-	-	0.603
Subtotal: SMALL ARMS ITEMS LESS THAN \$5 MILLION			-	-	-	-	-	8.453	-	-	4.158	-	-	3.654	-	-	-	-	-	3.654
Total			-	-	-	-	-	8.453	-	-	4.158	-	-	3.654	-	-	-	-	-	3.654

UNCLASSIFIED

<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> PB 2016 Air Force		<b>Date:</b> February 2015
<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 \$5 MILLION)

**Remarks:**  
Unit costs for FY16 are assumed and subject to change.