# Volume 1 Table of Contents

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Appropriation Language
Fiscal Year (FY) 2017 President’s Budget
Procurement of Ammunition, Air Force

For construction, procurement, production, and modification of ammunition and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including ammunition facilities authorized by section 2854 of title 10, United States Code, and the land necessary therefor, for the foregoing purposes, and such lands and interests therein, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; other expenses necessary for the foregoing purposes, and overseas contingency operations, $2,165,127,000 to remain available for obligation until September 30, 2019.
### Appropriation: Procurement of Ammunition, Air Force

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P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 27, 2016 at 10:18:54
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P-1C1: FY 2017 President's Budget (Published Version of PB Position), as of January 27, 2016 at 10:18:54
### Budget Activity 02: Weapons

#### Small Arms

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<td>1,744,515</td>
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<td>1,973,389</td>
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Allocations:

- **Small Arms**
  - **Budget Activity 02: Weapons**
  - **Appropriation: 3011F Procurement of Ammunition, Air Force**
  - **Total Obligational Authority**

**Total Procurement of Ammunition, Air Force**

**FY 2016**

- **Base Enacted Quantity**
- **Cost**
- **OCO Enacted Quantity**
- **Cost**
- **Total Enacted Quantity**
- **Total Enacted Cost**

**FY 2016**

- **Base Enacted Quantity**
- **Cost**
- **OCO Enacted Quantity**
- **Cost**
- **Total Enacted Quantity**
- **Total Enacted Cost**
### Appropriation: 3011F Procurement of Ammunition, Air Force

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**Budget Activity 02: Weapons**

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**Small Arms**

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**Total Weapons**

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**GENERAL ACRONYMS**

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

BASE / ORGANIZATIONAL ACRONYMS
11 WING - 11th Support Wing
ACC - Air Combat Command
AETC - Air Education & Training Command
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
AFOTEC - Air Force Operational Test & Evaluation Center
AFPC - Air Force Personnel Center
AFPSL - AF Primary Standards Lab
AFR - Air Force Reserve
AFSOC - Air Force 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
USAF Academy
USAFE - United States Air Force Europe
USCENTCOM - United States Central Command
USEUCOM - United States European Command
USMC - United States Marine Corps
USSTRATCOM - United States Strategic Command
WP AFB - Wright-Patterson AFB, OH

CONTRACT METHOD / TYPE ACRONYMNS

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

UNCLASSIFIED
### ACRONYMS

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IDENTIFICATION CODES

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


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


P-1 Line Item Number / Title: 351010 / Rockets

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Resource Summary

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(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:

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

- 2.75 Inch Rocket Motor (HA07): A single-stage, solid grained rocket motor used to propel guided and unguided payloads to their target. Payloads include 2.75 Inch Illuminating Warhead (H812), Infrared Illuminating Rocket (HA06), WP Warhead (H855), Signature Practice Warhead (H872), High Explosive Warheads (H842 and H843), as well as a guidance section to support APKWS II RW+ (HA79), to their targets via the LAU-131A and LAU-131A/A seven tube rocket launchers. The 2.75 Inch Rocket is used to mark target locations for other aircraft and as a low collateral damage guided rocket. This item is procured by OO-ALC through the U.S. Army Missile Command, Joint Attack Munitions Systems (JAMS), PEO Missiles and Space at Redstone Arsenal Alabama. The APKWS II RW+ guidance section is procured through the Department of Navy PMA-242 at Patuxent River Naval Air Station.

- 2.75 Inch White Phosphorus Warhead (H855): Used with the 2.75 inch Rocket Motor (HA07), provides forward air control aircraft with target locations from a standoff distance in a hostile environment. This item is procured by OO-ALC through the U.S. Army Missile Command, Joint Attack Munitions Systems (JAMS), PEO Missiles and Space at Redstone Arsenal Alabama.

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

- LAU-131A/A is a seven tube (capacity) extended length launcher that can fire legacy length 2.75-inch and the extended length APKWS II RW+ rockets. The extended length is designed to accommodate the guidance and control section within the launcher.

- WGU-59B APKWS II RW+ weapon system is employed on the A-10 and F-16 aircraft. APKWS II RW+ All Up Round (AUR) is composed of a M423 fuze, M151 Warhead, WGU-59B guidance and control section, and a MK66 mod 4 rocket motor launched from LAU-131 A/A rocket launcher to provide a fragmentation capability. When the APKWS II RW+ AUR incorporates the M282 warhead it will provide a precision penetration capability for structures and armored vehicles (except for tanks).
Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

Date: February 2016


P-1 Line Item Number / Title: 351010 / Rockets

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

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

- M282 Multi-Purpose Penetrator (MPP)(HA96): The M282 MPP warhead provides aircrew and ground commanders greatly enhanced weaponizing options to engage armored vehicles (except tanks) and targets protected by urban and cave environments. After completing a planned product improvement initiative, the M282 will be certified for fielding with APKWS II RW+ guidance section. The M282 is a low-cost penetrator warhead that addresses an AF Urgent Operational Need (UON) for continuing Overseas Contingency Operations and will directly improve the warfighters’ efficiency in a combat environment. The weapon is effective in any terrain, including, but not limited to: urban, desert and mountainous. It provides an ability to engage and destroy moving and transient targets. APKWS II RW+ offers greater precision, reduced collateral damage, and increased standoff range to enhance crew survivability.

- 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.

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

Funding for this exhibit is contained in PE 0207599F and PE 0208030F.
Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

**Justification:**
FY2017 Purchase of rockets, warheads, and guidance sections to constitute the APKWS II RW+ all-up-round (AUR), and other marking and illuminating warheads for the 2.75 inch rockets. The AUR is launched from reusable pods carried on aircraft pylons.

FY2017 OCO: The requested funds for Advanced Precision Kill Weapon System (APKWS) are needed to procure all-up-rounds to provide a low cost precision kill capability on F-16s and A-10s operating in the theater of operations in FY18. APKWS AURs procured with FY15 funds Congress approved in the new start UON are projected to be exhausted by FY18.

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.
### Exhibit P-5, Cost Analysis: PB 2017 Air Force

#### Appropriation / Budget Activity / Budget Sub Activity:
3011F / 01 / 11

#### P-1 Line Item Number / Title:
351010 / Rockets

#### Item Number / Title [DODIC]:
- / (H855) WHD 2.75 RKT SMK M156 PD M427

#### MDAP/MAIS Code:

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#### Resource Summary

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<th>FY 2017 Total</th>
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<td>5.939</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>5.939</td>
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</table>

(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)
- - 9.788 5.939 - 5.939 |

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

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

(†) indicates the presence of a P-5a

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### Prior Years

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<th>Unit Cost ($M)</th>
<th>Qty (Each)</th>
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### Remarks:
- Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.
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<th>Contractor and Location</th>
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<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
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### Exhibit P-40a, Budget Item Justification For Aggregated Items

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 11

**P-1 Line Item Number / Title:**
351010 / Rockets

**Aggregated Items Title:**
(HA06) WHD 2.75 RKT, INFRARED ILLUM

**Date:** February 2016

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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
## Exhibit P-5, Cost Analysis: PB 2017 Air Force

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 11

**P-1 Line Item Number / Title:**
351010 / Rockets

**Item Number / Title [DODIC]:**
- / APKWS

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(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)

**Cost Elements**

### Hardware - Advanced Precision Kill Weapon System (APKWS) Cost

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### Support - APKWS Cost

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| Subtotal: Support - APKWS Cost | ![](1.980) | ![](1.980) | ![](1.980) | ![](1.980) | ![](1.980) | ![](1.980) |

### Gross/Weapon System Cost

- | - | - | - | - | - | 60.000 |

(†) indicates the presence of a P-5a

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LI 351010 - Rockets

UNCLASSIFIED

Date: February 2016

Air Force

Page 7 of 9

P-1 Line #1

Volume 1 - 7
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### Exhibit P-40a, Budget Item Justification For Aggregated Items

**Aggregated Items Title:** ROCKETS (ITEMS LESS THAN $5 MILLION)

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 11

**P-1 Line Item Number / Title:**
351010 / Rockets

**Date:** February 2016

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

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</table>

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

### Description:

FY2015 funding includes $2.469M appropriated for Overseas Contingency Operations. FY2016 funding includes $8.371M appropriated for Overseas Contingency Operations.

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

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

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

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

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

- **5.56MM Blue Marking Cartridge (AB09):** This round is used in force-on-force training of personnel in M16A2 and M4 rifles. It consists of a plastic projectile in a brass cartridge case. Air Force procures this item through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.
## P-1 Line Item Number / Title:
352010 / Cartridges

### Line Item MDAP/MAIS Code: N/A

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

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

### Program Elements for Code B Items: N/A

### Other Related Program Elements: N/A

---

### -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.

### -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.

### -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.

### -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.

### -BBU-35 Impulse Cartridge (MG62):
Deploys countermeasure chaff and ignites flares from the aircraft dispenser. Applicable to the M206 Countermeasure Flare.

### -BBU-36 Impulse Cartridge (MG11):

### -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.

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

### -Items Less Than Five Million Dollars:
All items have an annual procurement of less than $5,000,000 and are Code A.

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

Funding for this exhibit contained in PEs: 0207580F, 0207599F, 0208015F and 0208030F.


### Justification:

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

The Air Force procures munitions to maintain appropriate quantities in the War Reserve Materiel (WRM) Munitions and test and training stockpiles. Active, Guard and Reserve components draw from the WRM well as certain impulse cartridges needed to eject weapons stores from bomb racks and instigate aircraft countermeasures.

<table>
<thead>
<tr>
<th>Exhibit Type</th>
<th>Title*</th>
<th>Prior Years</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
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<tbody>
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<td>(A143) 7.62MM BALL LINKED (M60)</td>
<td>P-5a</td>
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<td>- / -</td>
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<td>P-5</td>
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<td>- / -</td>
<td>- / 4.000</td>
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<tr>
<td>P-40a</td>
<td>CARTRIDGES (ITEM LESS THAN $5 MILLION)</td>
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<td>- / -</td>
<td>- / 36.270</td>
<td>- / 38.358</td>
<td>- / 47.648</td>
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</tbody>
</table>

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

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.
**Exhibit P-40, Budget Line Item Justification:** PB 2017 Air Force

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

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

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

**Program Elements for Code B Items:** N/A

**Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

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

- **20MM PGU-39 Dummy (A931):** Procurement is critical to replenish aging stockpiles of dummy ammunition rounds. Rounds are critical in providing gun system training, troubleshooting, and to verify weapon system readiness. Current inventory is severely aged (30+ years).

- **BBU-35 IMPULSE CARTRIDGE (MG62):** This procurement is critical to replenish WRM stockpiles. Approximately 2M assets are expended annually and 48% of the current stockpile will expire by the end of FY18 if unused.

- **BBU-36 IMPULSE CARTRIDGE (MG11):** This procurement is critical to replenish WRM stockpiles. Depot inventory is currently insufficient to fill FY16 requisitions and projected FY17 requisitions will be on hold until the next procurement is on contract and deliveries begin which projects to occur in 4QFY17.

- **BBU-48 IMPULSE CARTRIDE (SS27):** This procurement is critical to replenish WRM stockpiles. Current stockpile inventory is 67% of the total inventory requirement and is projected to drop to 60% at the end of FY17.
## Exhibit P-5, Cost Analysis: PB 2017 Air Force

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

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

**Item Number / Title [DODIC]:**
- / (A143) 7.62MM BALL LINKED (M80)

### Resource Summary

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>MDAP/MAIS Code:</th>
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</thead>
<tbody>
<tr>
<td></td>
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### Procurement Quantity (Units in Each)

<table>
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<tr>
<th></th>
<th>Prior Years</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
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<tbody>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>5.000</td>
<td>5.000</td>
<td>-</td>
<td>5.000</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P-1) ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>5.000</td>
<td>5.000</td>
<td>-</td>
<td>5.000</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>-</td>
<td>5.000</td>
<td>5.000</td>
<td>5.000</td>
<td>-</td>
<td>5.000</td>
</tr>
</tbody>
</table>

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

### Initial Spares ($ in Millions)

- FY 2015
- FY 2016
- FY 2017 Base
- FY 2017 OCO
- FY 2017 Total

### Gross/Weapon System Unit Cost ($ in Dollars)

- FY 2015
- FY 2016
- FY 2017 Base
- FY 2017 OCO
- FY 2017 Total

### Cost Elements

#### Hardware - Hardware End Item Cost

**Recurring Cost**

- 7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT\(^{(1)}\)
  - Unit Cost ($): 0.53
  - Qty (Each): 8,740,286
  - Total Cost ($M): 4.632
- Total: Recurring Cost
  - Unit Cost ($): -
  - Qty (Each): -
  - Total Cost ($M): 4.632

#### Support - Support End Item Cost

- PRODUCTION ENGINEERING
  - Unit Cost ($): 0.287
  - Qty (Each): -
  - Total Cost ($M): 0.287
- ACCEPTANCE TESTING
  - Unit Cost ($): 0.075
  - Qty (Each): -
  - Total Cost ($M): 0.075
- QUALITY ASSURANCE
  - Unit Cost ($): 0.006
  - Qty (Each): -
  - Total Cost ($M): 0.006

#### Gross/Weapon System Cost

- Unit Cost ($): 5.000
- Total Cost ($M): 5.000

### 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).
<table>
<thead>
<tr>
<th>Appropriation / Budget Activity / Budget Sub Activity:</th>
<th>P-1 Line Item Number / Title:</th>
<th>Item Number / Title [DODIC]:</th>
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</thead>
<tbody>
<tr>
<td>3011F / 01 / 12</td>
<td>352010 / Cartridges</td>
<td>- / (A143) 7.62MM BALL LINKED (M80)</td>
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</table>

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

(†) indicates the presence of a P-5a
## Exhibit P-5a, Procurement History and Planning

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

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

**Item Number / Title [DODIC]:**
- / (A143) 7.62MM BALL LINKED (M80)

---

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>OCO</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Spec Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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<td>7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT</td>
<td>2015</td>
<td>ALLIANT TECH (LCAAP) / INDEPENDENCE, MO</td>
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<td>Oct 2015</td>
<td>8,740,286</td>
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<tr>
<td>7.62MM M80 BALL, FLASH SUPPRESSED PROPELLANT</td>
<td>2016</td>
<td>ALLIANT TECH (LCAAP) / INDEPENDENCE, MO</td>
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<td>AFLCMC Hill AFB</td>
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<td>ALLIANT TECH (LCAAP) / INDEPENDENCE, MO</td>
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## Exhibit P-40a, Budget Item Justification For Aggregated Items

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

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

**Aggregated Items Title:**
- (A978) CTG, 25MM, TP (PGU-23/U)

**Date:** February 2016

### Prior Years

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<th>MDAP Code</th>
<th>MAIS Code</th>
<th>Unit Cost ($/Each)</th>
<th>Qty</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($/Each)</th>
<th>Qty</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($/Each)</th>
<th>Qty</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($/Each)</th>
<th>Qty</th>
<th>Total Cost ($M)</th>
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<tbody>
<tr>
<td>(A978) CTG, 25MM, TP (PGU-23/U)</td>
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<td>-</td>
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</table>

| Subtotal: Uncategorized    |       |           |           |                   |     |                |                   |     |                |                   |     |                |                   |     |                |
| Total                      |       |           |           |                   |     |                |                   |     |                |                   |     |                |                   |     |                |

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

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<th>FY 2017 OCO</th>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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### Prior Years Costs

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<td><strong>Hardware - Hardware End Item Cost</strong></td>
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<tr>
<td><strong>Recurring Cost</strong></td>
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<tr>
<td>LOAD, ASSEMBLE, PACK(*)</td>
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### 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 packing/boxing the ammunition rounds. The LAP quantity is the number of completed rounds to be delivered into the AF inventory.

Packaging, Crating and Handling (PC&H) cost is associated with transferring the completed order from production to the first destination.

(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force

**Date:** February 2016

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

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

#### Item Number / Title [DODIC]:
- / (AA22) 20MM PGU-28A/B SEMI-AP, HEI

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<th>OCO</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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</thead>
<tbody>
<tr>
<td>LOAD, ASSEMBLE, PACK</td>
<td>2016</td>
<td>General Dynamics &amp; Alliant Tech / Marion, IL and Plymouth, MN</td>
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<td>AFLCMC Hill AFB</td>
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<td>LOAD, ASSEMBLE, PACK</td>
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<td>General Dynamics &amp; Alliant Tech / Marion, IL and Plymouth, MN</td>
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LI 352010 - Cartridges
Air Force
## Exhibit P-5, Cost Analysis: PB 2017 Air Force

### Appropriation / Budget Activity / Budget Sub Activity:

- **MDAP/MAIS Code:**

- **Item Number / Title [DODIC]:**

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<tr>
<th>ID Code</th>
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<tbody>
<tr>
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<td>01 / 12</td>
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<th>P-1 Line #2</th>
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### Note:

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

### 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

#### Resource Summary

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<tr>
<th>Resource</th>
<th>Prior Years</th>
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<th>FY 2016</th>
<th>FY 2017 Base</th>
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(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)

- - - - - - -

### Cost Elements

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<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
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### Remarks:

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.
Exhibit P-5, Cost Analysis: PB 2017 Air Force

<table>
<thead>
<tr>
<th>Appropriation / Budget Activity / Budget Sub Activity:</th>
<th>P-1 Line Item Number / Title:</th>
<th>Item Number / Title [DODIC]:</th>
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<td>352010 / Cartridges</td>
<td>- / (AA24) 20MM, TP PGU-27A/B</td>
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</table>

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

**MDAP/MAIS Code:**

Packaging, Crating and Handling (PC&H) cost is associated with transferring the completed order from production to the first destination.

(†) indicates the presence of a P-5a
## Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force

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

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

### Item Number / Title [DODIC]:
- / (AA24) 20MM, TP PGU-27A/B

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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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## Exhibit P-40a, Budget Item Justification For Aggregated Items

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

**Date:** February 2016

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<th>Qty (Each)</th>
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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

**Remarks:**
The Air Force purchases Frangible rounds through the Dept of Navy. Prices for current and/or prior fiscal years represent the Vendor's total cost for completed and boxed rounds. Prices for budget years are estimates from industry obtained from the Navy.
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<td>Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force</td>
<td>P-1 Line Item Number / Title: 352010 / Cartridges</td>
<td>Aggregated Items Title: (AB09) 5.56 BLUE MARKING CARTRIDGE</td>
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<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
Exhibit P-5, Cost Analysis: PB 2017 Air Force  
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12  
P-1 Line Item Number / Title: 352010 / Cartridges  
Item Number / Title [DODIC]: - / (AB57) 5.56 CLIPPED BALL, LEAD FREE  

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

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<th>Cost Elements</th>
<th>Prior Years</th>
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<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
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(*) indicates the presence of a P-5a
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<th>Qty (Each)</th>
<th>Unit Cost ($</th>
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<th>Date Revision Available</th>
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### Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

**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

**Date:** February 2016

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

<table>
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<tr>
<th>Procurement Quantity (Units in Each)</th>
<th>Prior Years</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
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<tr>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>Net Procurement (P-1) ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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*The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.*

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

**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).
Exhibit P-5, Cost Analysis: PB 2017 Air Force

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<th>Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12</th>
<th>P-1 Line Item Number / Title: 352010 / Cartridges</th>
<th>Item Number / Title [DODIC]: - / (B116) 30MM PGU-15/B, TP</th>
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**ID Code (A=Service Ready, B=Not Service Ready): A**

Load, Assemble and Pack (LAP) costs are applicable to production, build-up and packaging the individual round.

(*) indicates the presence of a P-5a
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<tr>
<th>Cost Elements</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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### Exhibit P-40a, Budget Item Justification For Aggregated Items

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

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

**Aggregated Items Title:**
(MG11) CTG IMPULSE BBU-36/B

**Date:** February 2016

#### Prior Years

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*Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.*
### Exhibit P-40a, Budget Item Justification For Aggregated Items:

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

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

**Aggregated Items Title:**
(MG62) BBU-35/B IMPULSE CARTRIDGE

**Date:** February 2016

#### Prior Years

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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2017 Air Force

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

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

**Aggregated Items Title:**
(SS-27) BBU-48/B IMPULSE CARTRIDGE

**Date:** February 2016

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

### Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

#### Date: February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**

3011F / 01 / 12

**P-1 Line Item Number / Title:**

352010 / Cartridges

**Aggregated Items Title:**

CARTRiDES (ITEMS LESS THAN $5 MILLION)

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**UNCLASSIFIED**

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

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

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

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

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

**Remarks:**

All Ammunition Cartridges:

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

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

All Chaff and Impulse Cartridges:

Items are managed and procured through OO-ALC. Prices are estimates from industry.
Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title: 353010 / Practice Bombs

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

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<td>89.759</td>
<td>97.106</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>29.826</td>
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<td>333.844</td>
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Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |

Flyaway Unit Cost ($ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

Gross/Weapon System Unit Cost ($ in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

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

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

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

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

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

Funding for this exhibit contained in PE 0207599F.
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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title: 353010 / Practice Bombs

Program Elements for Code B Items: N/A

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

Other Related Program Elements: N/A

Exhibit Schedule

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<td>(ED96) BDU-50 2000LB CDI PRAC BOMB</td>
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Justification:
FY2017 funding purchases BDU-56 A/B and BDU-50 C/B pound non-explosive training bombs to provide combat air forces with weapons build-up and aircrew weapons delivery training. These practice bombs simulate drop trajectory and weight of explosive-filled weapons.

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.
### Exhibit P-5, Cost Analysis: PB 2017 Air Force

**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

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#### Resource Summary (Continued)

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

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

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

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**Remarks:**
### UNCLASSIFIED

**Exhibit P-5, Cost Analysis:** PB 2017 Air Force

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<td>- / (ED12) BDU-56A/B, 2000LB PRAC BOMB</td>
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**Date:** February 2016

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.

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.

Cost drivers may include economic price adjustments, currency rate fluctuations, price of complex or scarce materials and orders from other Military Services (increases/decreases).

(†) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning:

#### PB 2017 Air Force

**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

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<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
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Exhibit P-5, Cost Analysis: PB 2017 Air Force

Appropriation / Budget Activity / Budget Sub Activity:
3011F / 01 / 13

P-1 Line Item Number / Title:
353010 / Practice Bombs

Item Number / Title [DODIC]:
- / (ED96) BDU-50 2000LB CDI PRAC BOMB

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

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<th>FY 2017 OCO</th>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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

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

The load, assemble, pack (LAP) quantity is the number of completed rounds to be delivered into the AF inventory. The ammunition production plant provides the LAP price to SMCA, which includes cost to receive bomb bodies and for miscellaneous explosives, fillers and packing materials and bomb lugs used to produce an inventory-worthy round.

The BDU-50C/B Cast Ductile Iron (CDI) Practice Bomb contains no explosive fill materials, however, the SMCA generically terms the process of assembling the various components (bomb body, lugs, etc), and "package/palletize" the end item as "Load, Assemble and Pack (LAP), applicable to both general purpose and practice bombs.

(†) indicates the presence of a P-5a
<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>OCO</th>
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<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
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UNCLASSIFIED

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


P-1 Line Item Number / Title: 353020 / General Purpose Bombs

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

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<td>0.000 204.907 653.987 581.561 7.921 589.482 246.622 288.553 394.828 418.243 - 2,796.622</td>
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<td>0.000 204.907 653.987 581.561 7.921 589.482 246.622 288.553 394.828 418.243 - 2,796.622</td>
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</tbody>
</table>

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

| Description: FY2015 funding totals include $56.293 appropriated for Overseas Contingency Operations. |
| FY2016 funding totals include $17.031M requested for Overseas Contingency Operations. |

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

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

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

-MAU-209/MAU-169 (ED58) GBU-10/12 Computer Control Group is a laser homing guidance unit used on the GBU-10 and GBU-12 Laser Guided Bombs, (GBU-10, MK-84 Warhead, 2000lb class or GBU-12, MK-82 Warhead, 500lb class). The system has folding wings which open upon release for maneuverability and increased aircraft payload. This item is procured by Ogden ALC. Laser Guided Bombs are essential to meeting training, operational and inventory objective requirements worldwide for precision bombing against hardened and non-hardened targets. Yearly procurements ensure the necessary stock on hand to meet these requirements.

-BLU-117 (ED09) is a 2,000-pound class general purpose bomb. The bomb produces blast and fragmentation effects and can be used as either an unguided high or low drag weapon. When used with a guidance kit, it can be employed as a precision guided bomb. The warhead is used on the GBU-10/12 (PAVEWAY) and Joint Direct Attack Munition weapon systems. The BLU-117 can also be fuzed with proximity, instantaneous, or delayed fuzes to provide a variety of military effects. This item is procured through the Army Single Manager for Conventional Ammunition (SMCA).
-BLU-111 (ED15) is a thermally-protected General Purpose Bomb, identical to the MK-82 (500 lb bomb), except for type of explosive filler (Tritonal). It has a relatively thin case with a slender body designed for improved ballistics. Employed as general purpose bombs delivered in high and low drag modes with ground burst, delayed, or air burst fuzes and as precision guided munitions and aerial mines depending on the fin/airfoil group and fuzing. This item is procured through the Army Single Manager for Conventional Ammunition (SMCA).

-BLU-109 (ED49) warhead is a 2000-pound hard target penetrator bomb designed with Insensitive Munitions (IM) technology. BLU-109 will transition to A2K in FY17 (A2K has been designated the BLU-137/B). It is a penetration weapon used against bunkers, aircraft shelters, and reinforced concrete structures. The warhead is used on the GBU-10, 24, and 27 as well as Joint Direct Attack Munition (JDAM) weapon systems. This item is procured through the Army Single Manager for Conventional Ammunition (SMCA).

-BLU-129/B (ED78) Composite Case Warhead providing very low collateral damage weapon, carbon fiber composite case for high near-field lethality deliver 3x reduction in collateral damage. The weapon supports an urgent need for a very low collateral damage weapon. The program is dependent on field stated quantity requirements. The program will continue acquisition planning for the production restart of BLU-129/B and will develop a work plan transition to Hill (AFLCMC/EBH).

- BLU-134/B Improved Lethality Warhead (ILW) (formerly called BLU-111D/B), an area attack employed, near-term, 500 lb warhead for improved anti-personnel anti-material (APAM) target lethality which meets DoD policy on cluster munitions.

-Items Less Than Five Million Dollars: All items have an annual procurement of less than $5,000,000 and are Code A.

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

Funding for this exhibit contained in PEs: 0208030F, 0207599F
### Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

**Appropriation / Budget Activity / Budget Sub Activity:**

**P-1 Line Item Number / Title:**
353020 / General Purpose Bombs

**UNCLASSIFIED**

**Date:** February 2016

**Exhibit P-40, Budget Line Item Justification:**

**PB 2017 Air Force**

**Page 3 of 17**

**P-1 Line #4**

### Justification:

FY2017 purchases 500, 1000 and 2000 pound conventional general purpose bombs, and guidance and control kits to provide precision bombing capabilities; additionally, equipment or support required to enhance production line capacity as required by inventory replenishment. These weapons are used to defeat non-hard, hardened and deeply buried targets, bunkers, aircraft shelters, reinforced concrete structures and various armored targets. Built up with assorted componentry, the bombs can also be employed as Joint Direct Attack Munitions, GBU-10/12 Laser Guided Bombs, and BLU-109 Penetrator.

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

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

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

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

### Exhibits Schedule

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</tbody>
</table>

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

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.
Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 13

**P-1 Line Item Number / Title:**
353020 / General Purpose Bombs

**Aggregated Items Title:**
(EC32) MXU-650 GCG, FIN ASSEMBLY

**Date:** February 2016

<table>
<thead>
<tr>
<th>Item Number / Title [DODIC]</th>
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<th>MDAP/ MAIS Code</th>
<th>Unit Cost ($)</th>
<th>Qty</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($)</th>
<th>Qty</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($)</th>
<th>Qty</th>
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<th>Unit Cost ($)</th>
<th>Qty</th>
<th>Total Cost ($ M)</th>
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<td><strong>Uncategorized</strong></td>
<td></td>
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<tr>
<td>MXU-650 FIN ASSEMBLY - EC32</td>
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</table>

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

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

**Exhibit P-5, Cost Analysis: PB 2017 Air Force**

**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

**Date:** February 2016

**MDAP/MAIS Code:**

**Resource Summary**

<table>
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<tr>
<th>Procurement Quantity (Units in Each)</th>
<th>Prior Years</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>73.215</td>
<td>405.728</td>
<td>376.336</td>
<td>-</td>
<td>376.336</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P-1) ($ in Millions)</td>
<td>0.000</td>
<td>73.215</td>
<td>405.728</td>
<td>376.336</td>
<td>-</td>
<td>376.336</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>0.000</td>
<td>73.215</td>
<td>405.728</td>
<td>376.336</td>
<td>-</td>
<td>376.336</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Cost Elements**

<table>
<thead>
<tr>
<th>Hardware - Hardware End Item Cost</th>
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<tbody>
<tr>
<td><strong>Prior Years</strong></td>
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<tr>
<td>LOAD, ASSEMBLE, PACK (LAP)(†)</td>
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<tr>
<td>BOMB BODY 2000LB MK54 MOD 10 IM</td>
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<tr>
<td>LUG SUSP ACFT ORD MK3-0</td>
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<tr>
<td>CXM-AF7</td>
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<tr>
<td>PAILLET MK79-1</td>
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<tr>
<td>Subtotal: Recurring Cost</td>
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<tr>
<td>Subtotal: Hardware - Hardware End Item Cost</td>
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<tr>
<td>Support - Support End Item Cost</td>
</tr>
<tr>
<td>PRODUCTION ENGINEERING</td>
</tr>
<tr>
<td>QUALITY ASSURANCE</td>
</tr>
<tr>
<td>FIRST ARTICLE TEST</td>
</tr>
<tr>
<td>Subtotal: Support - Support End Item Cost</td>
</tr>
<tr>
<td>Gross/Weapon System Cost</td>
</tr>
</tbody>
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**Remarks:**
<table>
<thead>
<tr>
<th>ID Code</th>
<th>MDAP/MAIS Code</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
</tr>
</tbody>
</table>

This cost analysis represents the Single Manager for Conventional Ammunition (SMCA) efforts to obtain hardware, containers, pallets, straps, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack (LAP) the Air Force order.

The load, assemble, pack (LAP) quantity is the number of completed rounds to be delivered into the AF inventory. The ammunition production plant provides the LAP price to SMCA, which includes cost to receive bomb bodies and for miscellaneous explosives, fillers and packing materials used to produce an inventory-worthy round.

Bomb Body price, provided by the manufacturer to SMCA, is the unit price of an empty bomb body/casing. Developing the cost for a completed round, SMCA applies a Production Loss Factor (PLF) to estimate an additional quantity of bomb bodies/casings to mitigate risks during production of complete rounds. Risks may include defective bomb body or need to replace the body after filled with a nonconforming batch of explosives.

Primary cost drivers include the total military customer orders (increases/decreases), complex or scarce materials, economic price adjustments, currency rate fluctuations.

(*) indicates the presence of a P-5a
<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>OCO</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAD, ASSEMBLE, PACK (LAP)</td>
<td>2015</td>
<td>MCALESTER ARMY AMMUNITION PLAN / MCALESTER, OK</td>
<td>MIPR</td>
<td>ACC-ROCK ISLAND</td>
<td>Jun 2015</td>
<td>Jun 2016</td>
<td>3,528</td>
<td>5,142.57</td>
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<td>Jul 2017</td>
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<td>Jul 2018</td>
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### Resource Summary

<table>
<thead>
<tr>
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<th>Prior Years</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>-</td>
<td>13.201</td>
<td>44.873</td>
<td>5.000</td>
<td>-</td>
<td>5.000</td>
</tr>
<tr>
<td>Less FY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P-1) ($ in Millions)</td>
<td>-</td>
<td>13.201</td>
<td>44.873</td>
<td>5.000</td>
<td>-</td>
<td>5.000</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>13.201</td>
<td>44.873</td>
<td>5.000</td>
<td>-</td>
<td>5.000</td>
</tr>
</tbody>
</table>

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

### Initial Spares ($ in Millions)

- - - - - -

### Gross/Weapon System Unit Cost ($ in Dollars)

- - - - - -

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

### Prior Years FY 2015 FY 2016 FY 2017 Base FY 2017 OCO FY 2017 Total

### Cost Elements

<table>
<thead>
<tr>
<th>Hardware Cost</th>
<th>Recurring Cost</th>
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<td>PALLET MHU-122/E</td>
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<td>FIRST ARTICLE TEST</td>
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<td>Subtotal Support / Support End Item Cost</td>
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<tr>
<td>Gross/Weapon System Cost</td>
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<td>ID Code (A=Service Ready, B=Not Service Ready) : A</td>
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</table>

**Remarks:**

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(*) indicates the presence of a P-5a
<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAD, ASSEMBLE, PACK (LAP)</td>
<td>2015</td>
<td>MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK</td>
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<td>ACC-ROCK ISLAND</td>
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### Resource Summary

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<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
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</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
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<td>110.000</td>
<td>37.000</td>
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<td>37.000</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
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<td>57.235</td>
<td>110.000</td>
<td>37.000</td>
<td>-</td>
<td>37.000</td>
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</table>

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

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

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

### Cost Elements

#### Hardware - Hardware End Item Cost

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Prior Years</th>
<th>FY 2015</th>
<th>FY 2016</th>
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<th>FY 2017 Total</th>
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<td>CXM-AF-5</td>
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<td>57.235</td>
<td>-</td>
<td>110.000</td>
</tr>
</tbody>
</table>

#### Remarks:

*FIRST ARTICLE TEST*
*QUALITY ASSURANCE*
*ENGINEERING*
*PRODUCTION*
*QUALITY ASSURANCE*
*FIRST ARTICLE TEST*
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.

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(*) indicates the presence of a P-5a
### Exhibit P-5a, Procurement History and Planning:

**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

<table>
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<tr>
<th>Cost Elements</th>
<th>O CO</th>
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<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAD, ASSEMBLE, PACK</td>
<td></td>
<td>2015</td>
<td>MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK</td>
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<td>ACC-ROCK ISLAND</td>
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<td>1,923</td>
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<tr>
<td>LOAD, ASSEMBLE, PACK</td>
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<td>MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK</td>
<td>MIPR</td>
<td>ACC-ROCK ISLAND</td>
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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2017 Air Force  
**Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
3011F / 01 / 13

**P-1 Line Item Number / Title:**  
353020 / General Purpose Bombs

**Aggregated Items Title:**  
(ED58) MAU-209C/B CCG

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<th>MAIS Code</th>
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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

**Remarks:**
Prices shown reflect the average unit cost of split-award contracts plus inflation. Due to the competitive nature of the currently qualified vendors, estimated unit costs are not available for planning purposes.
### Exhibit P-40a, Budget Item Justification For Aggregated Items

**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

**Date:** February 2016

#### Prior Years

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**Subtotal: Uncategorized**

| Total                       |                 | -            | -   | -                | -            | -   | 8.125            | -            | -   | 8.125            | -            | -   | 8.125            | -            | -   | 8.125            |

**Total**

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

**Remarks:**
- BLU-129/B is a Composite Case Warhead providing a very low collateral damage weapon; carbon fiber composite case for high near-field lethality delivers 3x reduction in collateral damage.
### Exhibit P-40a, Budget Item Justification For Aggregated Items

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 13

**P-1 Line Item Number / Title:**
353020 / General Purpose Bombs

**Aggregated Items Title:**
BLU-134/B CDI 500LB

**Date:** February 2016

<table>
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<tr>
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</tbody>
</table>

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

**Remarks:**
BLU-134/B Improved Lethality Warhead (ILW) (formerly called BLU-111D/B), an area attack employed, near-term, 500lb warhead for improved anti-personnel anti-material (APAM) target lethality which meets DoD policy on cluster munitions.
### Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 13

**P-1 Line Item Number / Title:**
353020 / General Purpose Bombs

**Aggregated Items Title:**
GENERAL PURPOSE BOMBS (ITEMS LESS THAN $5 MILLION)

**Date:** February 2016

<table>
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<tr>
<th>Item Number / Title [DODIC]</th>
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<th>MDAP A MAIS Code</th>
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<th>FY 2016</th>
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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
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### Description:
The Massive Ordnance Penetrator (MOP) is a Quick Reaction Capability (QRC) for developing and producing a weapon for very hard and deeply buried targets. MOP is a 30,000 lb guided bomb. The guidance uses a Global Positioning System aided Inertial Navigation System (GPS/INS). MOP is integrated on the B-2A.

Funding for this exhibit is contained in PE 0208030F, project 353190. FY14 funds ($16.5M) for modification/upgrade of MOPs procured are in PE 0208030F, project 353020.
## Justification:

FY17 $3.6M procures MOP weapons and tail kits to maintain operational inventory level.
### Exhibit P-40a, Budget Item Justification For Aggregated Items:

**Appropriation / Budget Activity / Budget Sub Activity:** 3011F / 01 / 11

**P-1 Line Item Number / Title:** 353190 / MASSIVE ORDNANCE PENETRATOR (MOP)

**Aggregated Items Title:** MASSIVE ORDNANCE PENETRATOR (MOP)

**Date:** February 2016

**Exhibit P-40a, Budget Item Justification For Aggregated Items:**

<table>
<thead>
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<th>Item Number / Title [DODIC]</th>
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<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
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*Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.*

**Footnotes:**

(1) 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.
### Description:

FY2015 funding totals include $117,039M appropriated for Overseas Contingency Operations (OCO). These funds procure 5,478 JDAM guidance kits. FY2016 funding totals include $184,412M request for Overseas Contingency Operations (OCO). These funds procure 8,510 JDAM guidance kits.

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

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

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

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

Funding for this exhibit contained in PE 0207583F.

### Resource Summary

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<td>Net Procurement (P-1) ($ in Millions)</td>
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<td>533.975</td>
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<td>403.126</td>
<td>707.114</td>
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<td>371.200</td>
<td>356.581</td>
<td>-</td>
<td>6,749.495</td>
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</table>

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

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
Flyaway Unit Cost ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost ($ in Millions) | 0.024 | 0.026 | 0.024 | 0.025 | 0.022 | 0.023 | 0.028 | 0.026 | 0.026 | 0.027 | - | 0.024 |

**Description:**

FY2015 funding totals include $117,039M appropriated for Overseas Contingency Operations (OCO). These funds procure 5,478 JDAM guidance kits. FY2016 funding totals include $184,412M request for Overseas Contingency Operations (OCO). These funds procure 8,510 JDAM guidance kits.

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Funding for this exhibit contained in PE 0207583F.
**Exhibit P-40, Budget Line Item Justification:** PB 2017 Air Force

**Appropriation / Budget Activity / Budget Sub Activity:**

**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:** N/A

**Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** 503

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

**Exhibit Schedule**

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<th>Exhibit Type</th>
<th>Title*</th>
<th>Subexhibits</th>
<th>ID CD</th>
<th>Quantity / Total Cost (Each)</th>
<th>Quantity / Total Cost (Each)</th>
<th>Quantity / Total Cost (Each)</th>
<th>Quantity / Total Cost (Each)</th>
<th>Quantity / Total Cost (Each)</th>
<th>Quantity / Total Cost (Each)</th>
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</thead>
<tbody>
<tr>
<td>P-5</td>
<td>JOINT DIRECT ATTACK MUNITION</td>
<td>P-5a, P-21</td>
<td>A</td>
<td>171,473 / 4,054.269</td>
<td>8,786 / 228.439</td>
<td>22,359 / 533.975</td>
<td>12,133 / 303.988</td>
<td>18,531 / 403.126</td>
<td>30,664 / 707.114</td>
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<tr>
<td>P-40</td>
<td>Total Gross/Weapon System Cost</td>
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<td>8,786 / 228.439</td>
<td>22,359 / 533.975</td>
<td>12,133 / 303.988</td>
<td>18,531 / 403.126</td>
<td>30,664 / 707.114</td>
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**Exhibits Schedule**

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<th>Quantity / Total Cost (Each)</th>
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<th>Quantity / Total Cost (Each)</th>
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</thead>
<tbody>
<tr>
<td>P-5</td>
<td>JOINT DIRECT ATTACK MUNITION</td>
<td>P-5a, P-21</td>
<td>A</td>
<td>7,377 / 203.951</td>
<td>11,203 / 293.966</td>
<td>14,294 / 371.200</td>
<td>13,343 / 356.581</td>
<td>- / -</td>
<td>279,499 / 6,749.495</td>
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</table>

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

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

**Justification:**

FY17 funding totals include $303.988 million to procure 12,133 guidance kits and $403.126 million in Oversees Contingency Operations (OCO) to procure 18,531 guidance kits.
### Date: February 2016

**Exhibit P-5, Cost Analysis**: PB 2017 Air Force

**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

#### Resource Summary

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<td>8,786</td>
<td>22,359</td>
<td>12,133</td>
<td>18,531</td>
<td>30,664</td>
<td>7,377</td>
<td>11,203</td>
<td>14,294</td>
<td>13,343</td>
<td>-</td>
<td>279,499</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>4,054,269</td>
<td>228,439</td>
<td>533,975</td>
<td>303,988</td>
<td>403,126</td>
<td>707,114</td>
<td>203,951</td>
<td>293,966</td>
<td>371,200</td>
<td>356,581</td>
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<td>6,749,495</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<tr>
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<td>228,439</td>
<td>533,975</td>
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<td>403,126</td>
<td>707,114</td>
<td>203,951</td>
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<td>371,200</td>
<td>356,581</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>4,054,269</td>
<td>228,439</td>
<td>533,975</td>
<td>303,988</td>
<td>403,126</td>
<td>707,114</td>
<td>203,951</td>
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<td>371,200</td>
<td>356,581</td>
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<td>6,749,495</td>
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*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

**Cost Elements**

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<th>Cost Elements</th>
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<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
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<td>Non Recurring Engineering- Facilitation</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Hardware - Hardware End Item Cost</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Recurring Cost</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>JDAM TAIL KIT**(1)**</td>
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<td>3,687,364</td>
<td>0.024</td>
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<tr>
<td>Logistics - Logistics End Item Cost</td>
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<tr>
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*(Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.)*

---

**Date:** February 2016

**Exhibit P-5, Cost Analysis**: PB 2017 Air Force

**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

**Gross/Weapon System Unit Cost**

- PY Advance Procurement: $0.022
- Flyaway: $0.024
- Recurring: $0.060

**Net Procurement (P-1)**

- PY Advance Procurement: $0.022
- Flyaway: $0.024
- Recurring: $0.060

**Total Obligation Authority**: $6,749,495

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

---

**Date:** February 2016

**Exhibit P-5, Cost Analysis**: PB 2017 Air Force

**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

**Gross/Weapon System Unit Cost**

- PY Advance Procurement: $0.022
- Flyaway: $0.024
- Recurring: $0.060

**Net Procurement (P-1)**

- PY Advance Procurement: $0.022
- Flyaway: $0.024
- Recurring: $0.060

**Total Obligation Authority**: $6,749,495

*(Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.)*
### Flyaway - Joint Direct Attack Munition Cost

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>FY 2021</th>
<th>To Complete</th>
<th>Total Cost</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Unit Cost ($ M)</td>
<td>Qty (Each)</td>
<td>Total Cost ($ M)</td>
<td>Unit Cost ($ M)</td>
<td>Qty (Each)</td>
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<tr>
<td>Non Recurring Cost</td>
<td>0.024</td>
<td>171,473</td>
<td>4,054,269</td>
<td>0.026</td>
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<td>228,439</td>
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### UNCLASSIFIED

**Exhibit P-5, Cost Analysis:** PB 2017 Air Force  
**Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 3011F / 01 / 13

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

**Item Number / Title [DODIC]:** - / JOINT DIRECT ATTACK MUNITION

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

**MDAP/MAIS Code:**

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<th>FY 2020</th>
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<td>Qty (Each)</td>
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<tr>
<td>Recurring Cost</td>
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<td>272.938</td>
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<td>Subtotal: Logistics - Logistics End Item Cost</td>
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<td>4.478</td>
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LI 353620 - JOINT DIRECT ATTACK MUNITION

**UNCLASSIFIED**

Air Force

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P-1 Line #6
**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis:** PB 2017 Air Force

**Appropriation / Budget Activity / Budget Sub Activity:** 3011F / 01 / 13

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

**Item Number / Title [DODIC]:** - / JOINT DIRECT ATTACK MUNITION

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

<table>
<thead>
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<th>Cost Elements</th>
<th>FY 2018</th>
<th>FY 2019</th>
<th>FY 2020</th>
<th>FY 2021</th>
<th>To Complete</th>
<th>Total Cost</th>
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<tr>
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(†) indicates the presence of a P-5a
## Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force

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<th>Location of PCO</th>
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<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($M)</th>
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<th>RFP Issue Date</th>
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<tr>
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<td>BOEING / ST CHARLES, MO</td>
<td>SS / FFP</td>
<td>AFLCMC Hill AFB</td>
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<td>22,359</td>
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<tr>
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<td>AFLCMC Hill AFB</td>
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<td>Jul 2018</td>
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<td>Oct 2013</td>
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</tr>
<tr>
<td>JDAM TAIL KIT(†)</td>
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<td>2017</td>
<td>BOEING / ST CHARLES, MO</td>
<td>SS / FFP</td>
<td>AFLCMC Hill AFB</td>
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<td>Jul 2018</td>
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<td>Jul 2018</td>
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(†) indicates the presence of a P-21
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Exhibit P-21, Production Schedule: PB 2017 Air Force

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 ATTAC MUNITION

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<th>PROC QTY</th>
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Calendar Year 2015

| Month | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Calendar Year 2016

| Month | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
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Prior Years Deliveries: 163333

Date: February 2016

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

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**Note:** Prior Years Deliveries: 163333

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

**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**

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<td>V</td>
<td>C</td>
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**Prior Years Deliveries:** 163333

- **2016**
  - AF: 22.395
  - NAVY [1]: 1.884
  - FMS [1]: 5.178
  - Total: 29.421

- **2017**
  - AF: 12.133
  - NAVY [1]: 3.289
  - FMS [1]: 7.000
  - Total: 16.818

- **2018**
  - AF: 11.203
  - NAVY [1]: 2.300
  - FMS [1]: 7.000
  - Total: 20.503

- **2019**
  - AF: 14.294
  - NAVY [1]: 2.200
  - FMS [1]: 7.000
  - Total: 23.504

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**LI 353620 - JOINT DIRECT ATTACK MUNITION**

**Air Force**

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**P-1 Line #6**
**Exhibit P-21, Production Schedule:** PB 2017 Air Force

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 13

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

**Item Number / Title [DODIC]:**
- / JOINT DIRECT ATTACK MUNITION

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LI 353620 - JOINT DIRECT ATTACK MUNITION
Air Force

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P-1 Line #6

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## Joint Direct Attack Munition (JDAM) Tail Kit

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Prior Years Deliveries: 163333
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**Exhibit P-21, Production Schedule:** PB 2017 Air Force

**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

**Date:** February 2016

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**LI 353620 - JOINT DIRECT ATTACK MUNITION**

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**P-1 Line #6**
### Exhibit P-21, Production Schedule: PB 2017 Air Force

#### 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

#### Date:
February 2016

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**Cost Elements (Units in Thousands)**

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

**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

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

**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

**Date:** February 2016

**Exhibit P-21, Production Schedule:**

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<tr>
<th>Manufacturer Name - Location</th>
<th>Production Rates (Each / Year)</th>
<th>Procurement Leadtime (Months)</th>
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<td>MSR For 2017</td>
<td>1-8-5 For 2017</td>
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</table>

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

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

3. *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 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).
**Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force**

**P-1 Line Item Number / Title:**

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

**355100 / CAD/PAD**

**Appropriation / Budget Activity / Budget Sub Activity:**

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

**Date:** February 2016

**Resource Summary**

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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>-</td>
<td>29.989</td>
<td>58.266</td>
<td>38.890</td>
<td>-</td>
<td>38.890</td>
<td>52.936</td>
<td>51.304</td>
<td>47.054</td>
<td>47.893</td>
<td>-</td>
<td>326.332</td>
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<td>-</td>
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<tr>
<td>Net Procurement (P-1) ($ in Millions)</td>
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<td>38.890</td>
<td>52.936</td>
<td>51.304</td>
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<td>47.893</td>
<td>-</td>
<td>326.332</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>58.266</td>
<td>38.890</td>
<td>-</td>
<td>38.890</td>
<td>52.936</td>
<td>51.304</td>
<td>47.054</td>
<td>47.893</td>
<td>-</td>
<td>326.332</td>
</tr>
</tbody>
</table>

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

**Initial Spares ($ in Millions)***

| Initial Spares ($ in Millions) | -           | -       | -       | -            | -           | -             | -       | -       | -       | -       | -           | -     |

**Flyaway Unit Cost ($ in Dollars)**

| Flyaway Unit Cost ($ in Dollars) | -           | -       | -       | -            | -           | -             | -       | -       | -       | -       | -           | -     |

**Gross/Weapon System Unit Cost ($ in Dollars)**

| Gross/Weapon System Unit Cost ($ in Dollars) | -           | -       | -       | -            | -           | -             | -       | -       | -       | -       | -           | -     |

**Description:**

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

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

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

PE associated with this P-1 Line is 0708070F.
**Exhibit P-40, Budget Line Item Justification:** PB 2017 Air Force  

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

**P-1 Line Item Number / Title:**  
355100 / CAD/PAD

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

**Program Elements for Code B Items:** N/A

**Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

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

### Exhibits Schedule

<table>
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<tr>
<th>Exhibit Type</th>
<th>ID Code</th>
<th>Title*</th>
<th>Subexhibits</th>
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<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
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<td>P-40a</td>
<td>CAD/PAD</td>
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<td>-</td>
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<td>- / 29.989</td>
<td>- / 58.266</td>
<td>- / 38.890</td>
<td>- / 38.890</td>
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</tbody>
</table>

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

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

**Justification:**

FY2017 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.
### Exhibit P-40a, Budget Item Justification For Aggregated Items

**PB 2017 Air Force**

**Date:** February 2016

#### Appropriation / Budget Activity / Budget Sub Activity:
- 3011F / 01 / 15

#### P-1 Line Item Number / Title:
- 355100 / CAD/PAD

#### Aggregated Items Title:
- CAD/PAD

**Uncategorized**

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<th>MAIS Code</th>
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<th>FY 2015 Total Cost (M$)</th>
<th>FY 2016 Unit Cost (M$)</th>
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<th>FY 2016 Total Cost (M$)</th>
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<th>FY 2017 Base Qty (Each)</th>
<th>FY 2017 Base Total Cost (M$)</th>
<th>FY 2017 OCO Unit Cost (M$)</th>
<th>FY 2017 OCO Qty (Each)</th>
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<th>FY 2017 Total Unit Cost (M$)</th>
<th>FY 2017 Total Qty (Each)</th>
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**Subtotal: Uncategorized**

- 29.989

**Total**

- 29.989

---

*Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.*
**Exhibit P-40, Budget Line Item Justification:** PB 2017 Air Force  
**Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other  
355450 / Explosive Ordnance Disposal (EOD)

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

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

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

Funding for this exhibit contained in PE 0204424F and PE 0208028F.

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### Resource Summary

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<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>$6.925</td>
<td>$5.612</td>
<td>$5.714</td>
<td>$5.714</td>
<td>$5.862</td>
<td>$6.020</td>
<td>$6.131</td>
<td>$6.241</td>
<td>-</td>
<td>$42.505</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>$0.000</td>
<td>$6.925</td>
<td>$5.612</td>
<td>$5.714</td>
<td>$5.714</td>
<td>$5.862</td>
<td>$6.020</td>
<td>$6.131</td>
<td>$6.241</td>
<td>-</td>
<td>$42.505</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>$5.612</td>
<td>$5.714</td>
<td>$5.714</td>
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<td>$6.131</td>
<td>$6.241</td>
<td>-</td>
<td>$42.505</td>
</tr>
</tbody>
</table>

*(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)

| | | | | | | | | | | | |
| | | | | | | | | | | |
UNCLASSIFIED

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

Date: February 2016

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

P-1 Line Item Number / Title:  
355450 / Explosive Ordnance Disposal (EOD)

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

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<th>Line Item MDAP/MAIS Code</th>
<th>Item MDAP/MAIS Code(s)</th>
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Line Item MDAP/MAIS Code: N/A  
Item MDAP/MAIS Code(s): N/A

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<th>Title*</th>
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<th>Prior Years</th>
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<th>FY 2016</th>
<th>FY 2017 Base</th>
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<td>Quantity / Total Cost (Each) / ($ M)</td>
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<td>Quantity / Total Cost (Each) / ($ M)</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
FY2017 purchases explosive Ordnance Disposal (EOD), Demolition Material, Civil Engineering Tools and Equipment including all explosives, explosive tools and related equipment to render unexploded ordnance safe. Assets Provide support for Counter Improvised Explosive Devices (IED) operations, Special Operations teams, formal schools and Military Working Dog training. EOD/Demolition Munitions items are used in deployment packages, base response assets and range clearance resources in support of peacetime and contingency operations.
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<th>MDAI MAIS Code</th>
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<th>FY 2017 OCO</th>
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<th>Total Cost ($ M)</th>
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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

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

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

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

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<td>0.671</td>
<td>0.523</td>
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(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:
This P-1 line funds spares and repair parts for Procurement of Ammunition, Air Force (PAAF) items. Initial spares consist of repairable components, assemblies and subassemblies, as well as consumable items required in support of newly fielded end items. Requirements are based on historical failure/demand data on similar items. Replenishment spares consist of repairable components, assemblies and subassemblies required for follow-on sustainment of end items. Munitions replenishment spare levels are based on item-specific failure/demand driven computations.

PE associated with this P-1 Line is 0208030F.
**Exhibit P-40, Budget Line Item Justification:** PB 2017 Air Force  
**Date:** February 2016

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

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

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

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

### Exhibits Schedule

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<th>Quantity / Total Cost (Each)</th>
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<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

**Justification:**  
FY17 funds are used for spares and repair parts for Procurement of Ammunition, Air Force (PAAF) items.

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

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

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

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

Funding for this exhibit contained in PE 0208030F.
UNCLASSIFIED

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

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

P-1 Line Item Number / Title: 355970 / MODIFICATIONS

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

Date: February 2016

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Justification:
The FY2017 funding request is a low cost mod that reflects estimated costs based on historical funding requirements and projected future requirements.

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<th>Exhibit Type</th>
<th>Title*</th>
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<th>Subexhibits</th>
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<td>- / 1.102</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.
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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
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Description:
This category includes various munitions items to support air base ground defense, air rescue and aircrew/ground training.

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

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

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

PEs associated with this P-1 Line are 0207580F, 0207599F and 0207040F.

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(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) | - | - | - | - | - | - | - | - | - | - | - | - |

LI 355990 - ITEMS LESS THAN $5 MILLION

UNCLASSIFIED

Page 1 of 3

P-1 Line #11
Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force  

Date: February 2016

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

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

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

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Exhibit P-40a, Title*: ITEMS LESS THAN $5 MILLION

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

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Justification:  
FY2017 purchases miscellaneous munitions such as hand grenades, grenades with colored smoke for signaling aircrews and air-rescue, and ground-burst simulators primarily used for air-base and ground support missions.
### UNCLASSIFIED

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

**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

**Date:** February 2016

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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force


P-1 Line Item Number / Title: 356010 / FLARES

Date: February 2016

Resource Summary

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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:

FY2015 funding includes $19.136M appropriated for Overseas Contingency Operations.

FY2016 funding includes $11.064M appropriated for Overseas Contingency Operations.

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

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

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

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

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

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

-(LA66) The MJU-61 is an infrared countermeasure flare used by KC-130J and F-35 aircraft against heat seeking missiles. This item is procured through the Navy PMA 272.
**Exhibit P-40, Budget Line Item Justification:** PB 2017 Air Force  
**Date:** February 2016

<table>
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**Appropriation / Budget Activity / Budget Sub Activity:**  
3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 16: Flares 356010 / FLARES

**Program Elements for Code B Items:** N/A  
**Other Related Program Elements:** N/A

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

---

-(LA61) MJU-66 decoy Countermeasure Flare is an improved version of the MJU-64 providing increased decoy effectiveness and protection for the A-10, C-130 and F-35 aircraft and HH-53 and HH-60 helicopters and being evaluated for other aircraft. It is a one-piece aluminum case containing a payload of advanced special material elements, loaded into a multiple jettison unit magazine installed on a countermeasure dispenser. When deployed into the air stream, the special material reacts to emit an infrared signal to decoy infrared seeking missiles. Includes FY2017 OCO of $3.266M

-(LA67) MJU-71 IR Flare is a magnesium based thrusted flare used in a cocktail mix of flares on aircraft to improve the effectiveness of the countermeasures against heat-seeking missile threats. The 1x1x8 inch size provides better protection of the aircraft and flight crew. Other versions of thrusted flares are larger and use more space in the flare dispensers, severely limiting the number of ejection events. Initially approved for use on the C-130, A-10 and F-16 aircraft with on-going tests for use on other platforms. This item is procured through the Navy.

-(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.

-(LA21) MJU-53 Flare is a magnesium base IR countermeasure. It consists of an aluminum case, crimped and sealed plastic end cap, rubber spacer, plastic piston, safe and ignition device, flare pellet and sealed cartridge cup. It is dispensed and ignited in flight by a BBU-36 impulse cartridge cup). Used on C-17, C-5, and being evaluated for future use on other aircraft. Includes FY2017 OCO of $3.266M

-(LY12) The ALA-17C is an infrared countermeasure used by B-52 aircraft against heat seeking missiles. This item is procured through the US Air Force.

-Items Less Than Five Million Dollars: All items have an annual procurement of less than $5,000,000 and are Code A.

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

The FY17 funding request was reduced by $23.375 Million to account for the availability of prior year execution balances.

Funding for this exhibit contained in PEs: 0207224F, 0208030F and 0207599F.
Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

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

UNCLASSIFIED

P-1 Line Number / Title:
356010 - FLARES

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

Exhibit Schedule

<table>
<thead>
<tr>
<th>Exhibit Type</th>
<th>Title*</th>
<th>Subexhibits</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-5 (L461)</td>
<td>MUJ-10 FLARE</td>
<td>P-5a</td>
<td>A / - / 14.177 / 5.000 / 5.000</td>
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<tr>
<td>P-5 (L463)</td>
<td>MUJ-7A/B IR FLARE</td>
<td>P-5a</td>
<td>A / - / 7.000 / 16.885 / 16.885</td>
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<tr>
<td>P-40a (L336)</td>
<td>MUJ-62/B IR CM FLARE</td>
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<td>P-40a (L467)</td>
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<td>MUJ-69/B IR CM FLARE</td>
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<tr>
<td>P-40a (LY12)</td>
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<tr>
<td>P-40 Total Gross/Weapon System Cost</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
FY2017 purchases countermeasures and flares used by A-10, AC-130, F-16, C-17 and F-35/JSF aircraft, HH-53 and HH-60 helicopters and other aircraft to protect the warfighter against advanced air-to-air and ground-to-air infrared and heat seeking attack weapon systems and missiles.

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

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

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P-1 Line #12

Volume 1 - 111
Exhibit P-5, Cost Analysis: PB 2017 Air Force

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16
P-1 Line Item Number / Title: 356010 / FLARES
Item Number / Title [DODIC]: - / (L410) M206 FLARE

Resource Summary

<table>
<thead>
<tr>
<th>Procurement Quantity (Units Each)</th>
<th>Prior Years</th>
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<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Net Procurement (P-1) ($ in Millions)</td>
<td>-</td>
<td>25.645</td>
<td>25.853</td>
<td>20.882</td>
<td>-</td>
<td>20.882</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>25.645</td>
<td>25.853</td>
<td>20.882</td>
<td>-</td>
<td>20.882</td>
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</tbody>
</table>

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

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

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

Cost Elements

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
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<tbody>
<tr>
<td>Hardware - Hardware End Item Cost</td>
<td>-</td>
<td>-</td>
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<tr>
<td>M206 FLARE - L410(^{(1)})</td>
<td>36.00</td>
<td>697,955</td>
<td>25.126</td>
<td>36.00</td>
<td>704,158</td>
</tr>
<tr>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Subtotal: Hardware - Hardware End Item Cost</td>
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<tr>
<td>Support - Support End Item Cost</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>PRODUCTION ENGINEERING</td>
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<tr>
<td>Subtotal: Support - Support End Item Cost</td>
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<tr>
<td>Gross/Weapon System Cost</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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.

\(^{(1)}\) indicates the presence of a P-5a
**Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force**

**Appropriation / Budget Activity / Budget Sub Activity:** 3011F / 01 / 16

**P-1 Line Item Number / Title:** 356010 / FLARES

**Item Number / Title [DODIC]:** - / (L410) M206 FLARE

<table>
<thead>
<tr>
<th>Cost Elements (L410)</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>M206 FLARE - L410</td>
<td>2015</td>
<td>KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA</td>
<td>MIPR</td>
<td>AFLCMC Hill AFB</td>
<td>May 2015</td>
<td>Sep 2016</td>
<td>697,955</td>
<td>36.00</td>
<td>Y</td>
<td></td>
<td></td>
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<tr>
<td>M206 FLARE - L410</td>
<td>2016</td>
<td>KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA</td>
<td>MIPR</td>
<td>AFLCMC Hill AFB</td>
<td>Mar 2016</td>
<td>Mar 2017</td>
<td>704,158</td>
<td>36.00</td>
<td>Y</td>
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<tr>
<td>M206 FLARE - L410</td>
<td>2017</td>
<td>KILGORE AND ARMTEC / TOONE, TN AND COACHELLA, CA</td>
<td>MIPR</td>
<td>AFLCMC Hill AFB</td>
<td>Mar 2017</td>
<td>Mar 2018</td>
<td>599,066</td>
<td>34.27</td>
<td>Y</td>
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**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**

**Exhibit P-5, Cost Analysis:** PB 2017 Air Force

**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

**Date:** February 2016

**Resource Summary**

<table>
<thead>
<tr>
<th>Procurement Quantity (Units in Each)</th>
<th>Prior Years</th>
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<th>FY 2016</th>
<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>14.177</td>
<td>10.000</td>
<td>5.000</td>
<td>-</td>
<td>5.000</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P-1) ($ in Millions)</td>
<td>-</td>
<td>14.177</td>
<td>10.000</td>
<td>5.000</td>
<td>-</td>
<td>5.000</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>14.177</td>
<td>10.000</td>
<td>5.000</td>
<td>-</td>
<td>5.000</td>
</tr>
</tbody>
</table>

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

**Cost Elements**

<table>
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<th>Hardware - Hardware End Item Cost</th>
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<tr>
<td>MJU-10 FLARE - L461**(†)**</td>
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<td><strong>Recurring Cost</strong></td>
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<td><strong>Subtotal: Recurring Cost</strong></td>
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<td><strong>Subtotal: Hardware - Hardware End Item Cost</strong></td>
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<tr>
<td><strong>Support - Support End Item Cost</strong></td>
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<tr>
<td><strong>QUALITY ASSURANCE</strong></td>
</tr>
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<td><strong>Subtotal: Support - Support End Item Cost</strong></td>
</tr>
<tr>
<td><strong>Gross/Weapon System Cost</strong></td>
</tr>
</tbody>
</table>

*(†) indicates the presence of a P-5a*
### Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 16

**P-1 Line Item Number / Title:**
356010 / FLARES

**Item Number / Title [DODIC]:**
- / (L461) MJU-10 FLARE

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<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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</table>

**Remarks:**
The Single Manager for Conventional Ammunition (SMCA/Army) procures the MJU-10 Countermeasure Flare for the Air Force and other Military Services having requirements for the same or similar items. SMCA establishes contracts based on the competitive environment among qualified sources.
**Exhibit P-5, Cost Analysis:** PB 2017 Air Force  
**Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
3011F / 01 / 16

**P-1 Line Item Number / Title:**  
356010 / FLARES

**Item Number / Title [DODIC]:**  
- / (L463) MJU-7A/B, IR FLARE

### Resource Summary

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<tr>
<td>Net Procurement (P-1) ($ in Millions)</td>
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<td>7.000</td>
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<td>16.885</td>
<td>-</td>
<td>16.885</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>16.885</td>
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*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

### Initial Spares ($ in Millions)

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<td>-</td>
<td>-</td>
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### Gross/Weapon System Unit Cost ($ in Dollars)

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<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
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<tbody>
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</tbody>
</table>

### 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
## Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force

**Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 16

**P-1 Line Item Number / Title:**
356010 / FLARES

**Item Number / Title [DODIC]:**
- (L463) MJU-7A/B, IR FLARE

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>O C O</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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</thead>
</table>

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

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16

P-1 Line Item Number / Title: 356010 / FLARES

Aggregated Items Title: (LA21) MJU-53/B IR CM FLARE

Date: February 2016

<table>
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<tr>
<th>Item Number / Title [DODIC]</th>
<th>ID CD</th>
<th>MDAP Code</th>
<th>MAIS Code</th>
<th>Unit Cost ($)</th>
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<th>Total Cost ($M)</th>
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<th>Qty</th>
<th>Total Cost ($M)</th>
<th>Unit Cost ($)</th>
<th>Qty</th>
<th>Total Cost ($M)</th>
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</thead>
<tbody>
<tr>
<td>(LA21) MJU-53/B INFRARED COUNTERMEASURE FLARE</td>
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<td>-</td>
<td>-</td>
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<td>3.266</td>
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<td>13.718</td>
<td></td>
</tr>
</tbody>
</table>

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

Remarks:
The MJU-53 Infrared Countermeasure Flare is purchased by the Munitions Division, AFMC. Unit prices are estimates from industry.
### Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 16

**P-1 Line Item Number / Title:**
356010 / FLARES

**Aggregated Items Title:**
(LA36) MJU-62/B IR CM FLARE

**Date:**
February 2016

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<table>
<thead>
<tr>
<th>Item Number / Title [DODIC]</th>
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</table>

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

**Remarks:**
The MJU-62 Infrared Countermeasure Flare is purchased by the Munitions Division, AFMC. Unit prices are estimates from industry.
### Exhibit P-40a, Budget Item Justification For Aggregated Items:

#### Appropriation / Budget Activity / Budget Sub Activity:
3011F / 01 / 16

#### P-1 Line Item Number / Title:
356010 / FLARES

#### Aggregated Items Title:
(LA66) MJU-61 IR CM FLARE

#### Date:
February 2016

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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
### Exhibit P-40a, Budget Item Justification For Aggregated Items

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 16

**P-1 Line Item Number / Title:**
356010 / FLARES

**Aggregated Items Title:**
(LA61) MJU-66 CM ACFT FLARE

**Date:** February 2016

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

**Remarks:**
Air Force purchases MJU-66 through the Navy. The Navy provides this cost analysis with estimates obtained from industry based on quantity range matrices and forecasted cost of materials. FY2014-FY2016 prices have been amended to reflect more closely the proposed costs based in materiel cost increases.
**Exhibit P-40a, Budget Item Justification For Aggregated Items:**

**PB 2017 Air Force**

**Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 16

**P-1 Line Item Number / Title:**
356010 / FLARES

**Aggregated Items Title:**
(LA67) FLARE, IR, CM (MJU-71/B)

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</table>

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

**Remarks:**
The MJU-71 Infrared Countermeasure Flare is purchased by the Munitions Division, AFMC. Unit prices are estimates from industry.
### Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

**Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:** 3011F / 01 / 16

**P-1 Line Item Number / Title:** 356010 / FLARES

**Aggregated Items Title:** (LA68) MJU-68/B IR CM FLARE

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<td>2,062</td>
<td>5.00</td>
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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

**Remarks:**
The MJU-68 Infrared Countermeasure Flare is purchased by the Munitions Division, AFMC. Unit prices are estimates from industry.
## Exhibit P-40a, Budget Item Justification For Aggregated Items

**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

**Date:** February 2016

<table>
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<tr>
<td>(LA69) MJU-69 IR CM FLARE</td>
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**Remarks:**
The MJU-69 Infrared Countermeasure Flare is purchased by the Munitions Division, AFMC. Unit prices are estimates from industry.
Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16

P-1 Line Item Number / Title: 356010 / FLARES

Aggregated Items Title: (LY12) ALA-17 FLARE CARTRIDGE

<table>
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<th>Unit Cost ($)</th>
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<th>Unit Cost ($)</th>
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<tbody>
<tr>
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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
UNCLASSIFIED

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### Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

**Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 18: Fuzes  
356120 / Fuzes

---

**Resource Summary**

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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>206.919</td>
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<td>-</td>
<td>229.252</td>
<td>118.424</td>
<td>117.591</td>
<td>162.252</td>
<td>176.570</td>
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<td>229.252</td>
<td>118.424</td>
<td>117.591</td>
<td>162.252</td>
<td>176.570</td>
<td>1,120.273</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>229.252</td>
<td>118.424</td>
<td>117.591</td>
<td>162.252</td>
<td>176.570</td>
<td>1,120.273</td>
</tr>
</tbody>
</table>

(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:**

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 multi-function unitary fuze developed and procured for the Joint Direct Attack Munition and other conventional inventory weapons. The FMU-152A/B provides a highly reliable bomb fuze with multiple arm times, instantaneous and multiple short and long delay detonation times, hard target survivability, cockpit programmability, and increased service/shelf life. The JPF is compatible with MK-80 series guided and unguided bombs. It has replaced and/or supplemented the FMU-139A/B and FMU-139C/B, FMU-143, FMU-124, and M904/M905 fuzes, and provides the next generation of fuzing capability for hard target, general purpose, and guided bombs. This item is procured through the Air Armament Center, Eglin AFB, Florida. The Air Force is the lead service for procurement. FY2015 $12.424M Overseas Contingency Operations funding appropriated. FY2016 funding includes $3.998M requested for Overseas Contingency Operations.

- **FMU-139D/B:** The latest general purpose fuze that is currently being pursued with the Navy. This fuze will marry the AF FMU-152A/B and the Navy FMU-139C/B specs for a better buying power business case. Currently the Navy will not purchase/utilize the JPF due to safety concerns regarding its battery. These safety concerns are specific to Navy employment and do not impact the Air Force. This program is currently pending Contract Award.

- **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.

- **DSU-33D/B Proximity Sensor (KY70):** A battery operated, RF, Doppler radar proximity sensor. It is used to provide low altitude proximity function to the bomb fuze. The sensor interfaces with FMU-139 and FMU-152 fuzes. The DSU-33D/B replaces the DSU-33C/B (GY33). This item will be procured through the Army Single Manager for Conventional Ammunition. FY2015 $12.424M Overseas Contingency Operations funding appropriated. FY2016 funding includes $3.996M requested for Overseas Contingency Operations.
Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 18: Fuzes 356120 / Fuzes

<table>
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<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready): A</th>
<th>Program Elements for Code B Items: N/A</th>
<th>Other Related Program Elements: N/A</th>
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P-1 Line Item Number / Title: 356120 / Fuzes

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

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Program Elements for Code B Items: N/A

Other Related Program Elements: N/A

Line Item MDAP/MAIS Code: N/A

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

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

- 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.

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

PEs associated with this P-1 Line are 0208030F and 0207599F.
### Exhibition P-40, Budget Line Item Justification: PB 2017 Air Force

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 18: Fuzes 356120 / Fuzes

**P-1 Line Item Number / Title:**
356120 / Fuzes

**Date:**
February 2016

**Exhibit P-40, Budget Line Item Justification:**

P-1 Line Item Number / Title: 356120 / Fuzes

**Program Elements for Code B Items:** N/A

**Other Related Program Elements:** N/A

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**Exhibit Schedule**

<table>
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<th>Exhibit Type</th>
<th>Title*</th>
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<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
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<td>P-5</td>
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<td>15.75 / 22.243</td>
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<td>FMU-152 FUZE SYSTEM, UNIVERSAL</td>
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<td>FMU-139D/B, PGM SPT, Qual Test</td>
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<td>- / -</td>
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<td>- / -</td>
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<td>FUZES (ITEMS LESS THAN $5 MILLION)</td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

---

**Justification:**

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

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

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

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**UNCLASSIFIED**

Page 3 of 15
### UNCLASSIFIED

**Exhibit P-5, Cost Analysis:** PB 2017 Air Force  
**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  
**Date:** February 2016

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#### Resource Summary

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<th>FY 2017 OCO</th>
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### Note:

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

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#### FY 2017 Base

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#### FY 2017 OCO

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#### FY 2017 Total

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<th>FY 2017 Total</th>
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### 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.

(†) indicates the presence of a P-5a
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<thead>
<tr>
<th>Cost Elements</th>
<th>OCO</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type of Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revision Available</th>
<th>RFP Issue Date</th>
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### Exhibit P-40a, Budget Item Justification For Aggregated Items

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 18

**P-1 Line Item Number / Title:**
356120 / Fuzes

**Aggregated Items Title:**
(ED51) FMU-152 FUZE SYSTEM, UNIVERSAL

**Date:**
February 2016

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**Note:** Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
## Exhibit P-5, Cost Analysis: PB 2017 Air Force

### Appropriation / Budget Activity / Budget Sub Activity:
3011F / 01 / 18

### P-1 Line Item Number / Title:
356120 / Fuzes

### Item Number / Title [DODIC]:
- / (KY70) DSU-33D/B PROX SENSOR

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

#### MDAP/MAIS Code:

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<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
<th>FY 2017 Total</th>
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<tbody>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)
- - - - - -

### Gross/Weapon System Unit Cost ($ in Dollars)
- - - - - -

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

### Cost Elements

#### Hardware - (KY70) DSU-33D/B PROX SENSOR Cost

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(†) indicates the presence of a P-5a
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### Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 01 / 18

**P-1 Line Item Number / Title:**
356120 / Fuzes

**Aggregated Items Title:**
FMU-139 NRE

**Date:**
February 2016

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

**Remarks:**

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

- **FY17:** $4.105M Pgm Office Spt/Qual Testing
**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2017 Air Force  
**Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**  
3011F / 01 / 18

**P-1 Line Item Number / Title:**  
356120 / Fuzes

**Aggregated Items Title:**  
FMU-139D/B, PGM SPT, Qual Test

### Prior Years

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**FY 2015**

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**FY 2016**

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<td>Pgm Spt &amp; Qual Test</td>
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**FY 2017 Base**

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<td><strong>Subtotal: Program Support &amp; Qual Testing</strong></td>
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**FY 2017 OCO**

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<th>Total Cost ($ M)</th>
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<tbody>
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**FY 2017 Total**

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<td>Total</td>
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**Remarks:**  
The FMU-139D/B is a new general purpose fuze that is currently being pursued with the Navy. This fuze marries the AF FMU-152A/B and the Navy FMU-139C/B specs for a better buying power business case. Currently the Navy will not purchase/utilize the JPF due to safety concerns regarding the battery. These safety concerns are specific to the Navy employment and do not impact the Air Force. The contract for this effort was competitively awarded 17 SEP 15. The new design is currently being qualified and tested with production anticipated in FY18 & beyond. Because the design change is a re-packaging of current technology the program office was approved by their PEO to use production funds for the minimal NRE required.

FY16 includes Program Support and Qual Testing.
### Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

#### Appropriation / Budget Activity / Budget Sub Activity:
3011F / 01 / 18

#### P-1 Line Item Number / Title:
356120 / Fuzes

#### Aggregated Items Title:
FUZES (ITEMS LESS THAN $5 MILLION)

#### Date:
February 2016

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**Subtotal: Uncategorized**

| - | - | - | - | - | 7.140 | - | - | - | - | - | - | - | - |

**Total**

| - | - | - | - | - | 7.140 | - | - | - | - | - | - | - | - |

*Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.*
## Exhibit P-5, Cost Analysis: PB 2017 Air Force

**Appropriation / Budget Activity / Budget Sub Activity:**
301F / 01 / 18

**P-1 Line Item Number / Title:**
356120 / Fuzes

**Item Number / Title [DODIC]:**
- / (EE27) FMU-167 HTVSF

**MDAP/MAIS Code:**

### Resource Summary

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

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.
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<tbody>
<tr>
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(†) indicates the presence of a P-5a
### Hard Target Void Sensing Fuze

**CLIN 1001**  
2015  
Orbital ATK / Rocket Center, WV  
C / FFP  
Eglin AFB  
Jul 2015  
Feb 2016  
151  
20,872.00  
Y

**CLIN 1001**  
2016  
Orbital ATK / Rocket Center, WV  
C / FFP  
Eglin AFB  
Jul 2016  
Feb 2017  
475  
19,515.79  
Y

**CLIN 1001**  
2017  
Orbital ATK / Rocket Center, WV  
C / FFP  
Eglin AFB  
Jul 2017  
Feb 2018  
1,575  
11,346.03  
Y
Description:
Small Arms encompasses small caliber, hand fired weapons (pistols and rifles) used to support air base ground defense, aircrew protection, Office of Special Investigations, security functions, and other activities requiring small, portable firearms. This line also procures various accessories needed to improve or maintain existing weapons.

The M4 Carbine is a 5.56mm, gas-operated, air-cooled, magazine-fed, selective-rate, shoulder-fired weapon. It is fed by a 30-round magazine and has continued to replace select M16 series rifles and select M9 pistols. It provides the individual Airman operating in close quarters the capability to engage targets at extended ranges with accurate lethal fire. More compact than the M16 series rifle and featuring a collapsible stock, it achieves over 85% commonality with the M16A2 Rifle. The M4 carbine also includes a Combat Optic and the Modular Weapon System (MWS) which provides two additional magazines, the M4 Rail Assembly System and the Back-up Iron Sight.

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

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

PEs associated with this P-1 line are 0207227F, 0207580F, 0408011F and 0804731F.
### Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force

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

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

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<td><strong>Quantity / Total Cost (Each) / ($ M)</strong></td>
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*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

<table>
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<th>FY 2017 Base</th>
<th>FY 2017 OCO</th>
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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
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<td>($)</td>
<td>(Each)</td>
<td>($ M)</td>
<td>($)</td>
<td>(Each)</td>
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<td>M320A1 (40MM GRENADE LAUNCHER)</td>
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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

Remarks:
Unit costs for FY17 are assumed and are subject to change.
### Exhibit P-5, Cost Analysis: PB 2017 Air Force

**Date:** February 2016

**Appropriation / Budget Activity / Budget Sub Activity:**
- 3011F / 02 / 1

**P-1 Line Item Number / Title:**
- 357010 / SMALL ARMS

**Item Number / Title [DODIC]:**
- / M4 Carbine (5.56mm)

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

#### MDAP/MAIS Code:

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

#### Cost Elements

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**Remarks:**

Unit costs for FY17 are assumed and subject to change.

(†) indicates the presence of a P-5a.

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.
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### Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force

**Appropriation / Budget Activity / Budget Sub Activity:**
3011F / 02 / 1

**P-1 Line Item Number / Title:**
357010 / SMALL ARMS

**Aggregated Items Title:**
SMALL ARMS Items Less Than $5M

**Date:** February 2016

<table>
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<td>Night Vision PVS-30</td>
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<tr>
<td>M2A1 (.50 Cal Machine Gun)</td>
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<td>M110 SASS</td>
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<td>M107 Sniper Rifle (.50 cal)</td>
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**Subtotal: SMALL ARMS ITEMS LESS THAN $5 MILLION**

| Subtotal |   |   |   |   | 17,469 |   |   | 20,471 |   | 3,506 |   | 3,506 |   |

**Total**

| Total |   |   |   |   | 17,469 |   |   | 20,471 |   | 3,506 |   | 3,506 |   |

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.
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<th>Appropriation / Budget Activity / Budget Sub Activity: 3011F / 02 / 1</th>
<th>P-1 Line Item Number / Title: 357010 / SMALL ARMS</th>
<th>Aggregated Items Title: SMALL ARMS Items Less Than $5M</th>
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<tr>
<td>Remarks: Unit costs for FY17 are assumed and subject to change.</td>
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