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**Department of Defense
Fiscal Year (FY) 2024 Budget Estimates**

March 2023



Air Force

Justification Book Volume 1 of 1

Procurement of Ammunition, Air Force

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Air Force • Budget Estimates FY 2024 • Procurement

Table of Volumes

Procurement of Ammunition, Air Force.....Volume 1

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Air Force • Budget Estimates FY 2024 • Procurement

Volume 1 Table of Contents

Introduction and Explanation of Contents.....Volume 1 - v
Comptroller Exhibit P-1.....Volume 1 - vii
Master Line Item Table of Contents (by Appropriation then Line Number)..... Volume 1 - xv
Master Line Item Table of Contents (Alphabetically by Line Item Title).....Volume 1 - xvii
Summary.....Volume 1 - xix
Acronyms..... Volume 1 - xxi
Exhibit P-40s..... Volume 1 - 1

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Appropriation Language
Fiscal Year (FY) 2024 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 operations costs, \$703,158,000 to remain available for obligation until September 30, 2026.

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Department of the Air Force
 FY 2024 President's Budget
 Exhibit P-1 FY 2024 President's Budget
 Total Obligational Authority
 3011F Detail
 (Dollars in Thousands)

Mar 2023

Appropriation: 3011 Procurement of Ammunition, Air Force

	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment
--	-----------------	---	------------------------------------

Line No	Item Nomenclature	Ident Code	Se c	Quantity	Cost	Quantity	Cost	Quantity	Cost*
<u>Budget Activity 01: Ammunition</u>									
Rockets									
1	Rockets	A	U		36,572		22,190		
Cartridges									
2	Cartridges	A	U		161,917		117,064		
Bombs									
3	Practice Bombs	A	U		48,745				
4	General Purpose Bombs	A	U		160,976		148,102		
5	Massive Ordnance Penetrator (MOP)		U		15,500		19,743		
6	Joint Direct Attack Munition	A	U	0	48,584	4,200	251,434		
7	B-61	A	U		2,709				
8	B61-12 Trainer	A	U						

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

UNCLASSIFIED

Department of the Air Force
 FY 2024 President's Budget
 Exhibit P-1 FY 2024 President's Budget
 Total Obligational Authority
 3011F Detail
 (Dollars in Thousands)

Mar 2023

Appropriation: 3011 Procurement of Ammunition, Air Force

Line		Ident Se		FY 2023 Total Enactment		FY 2024 Request	
No	Item Nomenclature	Code	c	Quantity	Cost	Quantity	Cost
<u>Budget Activity 01: Ammunition</u>							
Rockets							
1	Rockets	A	U		22,190		18,483
Cartridges							
2	Cartridges	A	U		117,064		101,104
Bombs							
3	Practice Bombs	A	U				
4	General Purpose Bombs	A	U		148,102		142,118
5	Massive Ordnance Penetrator (MOP)		U		19,743		14,074
6	Joint Direct Attack Munition	A	U	4,200	251,434	1,772	132,364
7	B-61	A	U				68
8	B61-12 Trainer	A	U				10,100

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Department of the Air Force
 FY 2024 President's Budget
 Exhibit P-1 FY 2024 President's Budget
 Total Obligational Authority
 3011F Detail
 (Dollars in Thousands)

Mar 2023

Appropriation: 3011 Procurement of Ammunition, Air Force				FY 2022 Actuals		FY 2023 Less Supplementals Enactment		FY 2023 Supplementals Enactment	
Line No	Item Nomenclature	Ident Code	Se c	Quantity	Cost	Quantity	Cost	Quantity	Cost*
Other Items									
9	Cad/Pad	A	U		59,010		48,473		
10	Explosive Ordnance Disposal (EOD)	A	U		5,151		6,343		
11	Spares And Repair Parts	A	U		535		573		
12	Modifications	A	U		292				
13	First Destination Transportation	A	U				3,025		
14	Items Less Than \$5,000,000	A	U		9,164		5,014		
Flares									
15	Expendable Countermeasures	A	U		85,934		120,548		
Fuzes									
16	Fuzes	A	U		20,795		102,918		
Total Ammunition					0	655,884	4,200	845,427	

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

UNCLASSIFIED

Department of the Air Force
 FY 2024 President's Budget
 Exhibit P-1 FY 2024 President's Budget
 Total Obligational Authority
 3011F Detail
 (Dollars in Thousands)

Mar 2023

Appropriation: 3011 Procurement of Ammunition, Air Force

Line		Ident Code	Se c	FY 2023 Total Enactment		FY 2024 Request		
No	Item Nomenclature			Quantity	Cost	Quantity	Cost	
Other Items								
9	Cad/Pad	A	U		48,473		51,487	
10	Explosive Ordnance Disposal (EOD)	A	U		6,343		6,707	
11	Spares And Repair Parts	A	U		573		585	
12	Modifications	A	U					
13	First Destination Transportation	A	U		3,025		2,299	
14	Items Less Than \$5,000,000	A	U		5,014		5,115	
Flares								
15	Expendable Countermeasures	A	U		120,548		79,786	
Fuzes								
16	Fuzes	A	U		102,918		109,562	
Total Ammunition					4,200	845,427	1,772	673,852

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Department of the Air Force
 FY 2024 President's Budget
 Exhibit P-1 FY 2024 President's Budget
 Total Obligational Authority
 3011F Detail
 (Dollars in Thousands)

Mar 2023

Appropriation: 3011 Procurement of Ammunition, Air Force				FY 2022 Actuals		FY 2023 Less Supplementals Enactment		FY 2023 Supplementals Enactment	
Line No	Item Nomenclature	Ident Code	Se c	Quantity	Cost	Quantity	Cost	Quantity	Cost*
<u>Budget Activity 02: Weapons</u>									
Small Arms									
17	Small Arms	A	U		10,093		11,773		
Total Weapons					10,093		11,773		
Total Procurement of Ammunition, Air Force					0	665,977	4,200	857,200	

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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Department of the Air Force
FY 2024 President's Budget
Exhibit P-1 FY 2024 President's Budget
Total Obligational Authority
3011F Detail
(Dollars in Thousands)

Mar 2023

Appropriation: 3011 Procurement of Ammunition, Air Force

FY 2023 Total Enactment

FY 2024 Request

Line		Ident	Se	FY 2023 Total Enactment		FY 2024 Request	
No	Item Nomenclature	Code	c	Quantity	Cost	Quantity	Cost

Budget Activity 02: Weapons

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Department of the Air Force
FY 2024 President's Budget
Exhibit P-1 FY 2024 President's Budget
Total Obligational Authority
3022F BA Summary
(Dollars in Thousands)

Mar 2023

Small Arms

17	Small Arms	A	U	11,773	29,306		
Total Weapons				11,773	29,306		
Total Procurement of Ammunition, Air Force				4,200	857,200	1,772	703,158

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Air Force • Budget Estimates FY 2024 • Procurement

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

Appropriation 3011F: Procurement of Ammunition, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
1	01	11	351010	Rockets.....	Volume 1 - 1
2	01	12	352010	Cartridges.....	Volume 1 - 7
3	01	13	353010	Practice Bombs.....	Volume 1 - 21
4	01	13	353020	General Purpose Bombs.....	Volume 1 - 23
5	01	13	353190	Massive Ordnance Penetrator (MOP).....	Volume 1 - 35
6	01	13	353620	Joint Direct Attack Munition.....	Volume 1 - 39
7	01	13	354040	B-61.....	Volume 1 - 49
8	01	13	354050	B61-12 Trainer.....	Volume 1 - 53
9	01	15	355100	Cad/Pad.....	Volume 1 - 57
10	01	15	355450	Explosive Ordnance Disposal (EOD).....	Volume 1 - 61
11	01	15	355900	Spares And Repair Parts.....	Volume 1 - 67
12	01	15	355970	Modifications.....	Volume 1 - 69
13	01	15	355980	First Destination Transportation.....	Volume 1 - 71
14	01	15	355990	Items Less Than \$5,000,000.....	Volume 1 - 73
15	01	16	356010	Expendable Countermeasures.....	Volume 1 - 77
16	01	18	356120	Fuzes.....	Volume 1 - 83

UNCLASSIFIED

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Air Force • Budget Estimates FY 2024 • Procurement

Appropriation 3011F: Procurement of Ammunition, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
17	02	01	357010	Small Arms.....	Volume 1 - 89

UNCLASSIFIED

UNCLASSIFIED

Air Force • Budget Estimates FY 2024 • Procurement

Master Line Item Table of Contents (Alphabetically by Line Item Title)

Line Item Title	Line Item Number	Line #	BA	BSA	Page
B-61	354040	7	01	13.....	Volume 1 - 49
B61-12 Trainer	354050	8	01	13.....	Volume 1 - 53
Cad/Pad	355100	9	01	15.....	Volume 1 - 57
Cartridges	352010	2	01	12.....	Volume 1 - 7
Expendable Countermeasures	356010	15	01	16.....	Volume 1 - 77
Explosive Ordnance Disposal (EOD)	355450	10	01	15.....	Volume 1 - 61
First Destination Transportation	355980	13	01	15.....	Volume 1 - 71
Fuzes	356120	16	01	18.....	Volume 1 - 83
General Purpose Bombs	353020	4	01	13.....	Volume 1 - 23
Items Less Than \$5,000,000	355990	14	01	15.....	Volume 1 - 73
Joint Direct Attack Munition	353620	6	01	13.....	Volume 1 - 39
Massive Ordnance Penetrator (MOP)	353190	5	01	13.....	Volume 1 - 35
Modifications	355970	12	01	15.....	Volume 1 - 69
Practice Bombs	353010	3	01	13.....	Volume 1 - 21
Rockets	351010	1	01	11.....	Volume 1 - 1
Small Arms	357010	17	02	01.....	Volume 1 - 89
Spares And Repair Parts	355900	11	01	15.....	Volume 1 - 67

UNCLASSIFIED

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Department of the Air Force
 FY 2024 President's Budget
 Exhibit P-1 FY 2024 President's Budget
 Total Obligational Authority
 3011F BA Summary
 (Dollars in Thousands)

Mar 2023

Appropriation: Procurement of Ammunition, Air Force	FY 2022 Actuals	FY 2023 Less Supplementals Enactment	FY 2023 Supplementals Enactment*	FY 2023 Total Enactment	FY 2024 Request
<u>Budget Activity</u>					
01. Ammunition	655,884		845,427	845,427	673,852
02. Weapons	10,093		11,773	11,773	29,306
Total Procurement of Ammunition, Air Force	665,977		857,200	857,200	703,158

*Includes enacted funding in the Ukraine Supplemental Appropriation Act, 2023 (Division B of Public Law 117-180) and Additional Ukraine Supplemental Appropriation Act, 2023 (Division M of Public Law 117-328).

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ACRONYMS

GENERAL ACRONYMS

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

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

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

BASE / ORGANIZATIONAL ACRONYMS

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

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

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CONTRACT METHOD / TYPE ACRONYMS

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

CONTRACTED BY ACRONYMS

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

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

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 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 11: Rockets	P-1 Line Item Number / Title: 351010 / Rockets
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
--	---	--

Line Item MDAP/MAIS Code: 112

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	36.572	22.190	18.483	-	18.483	24.845	25.724	25.143	25.685	-	178.642
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	36.572	22.190	18.483	-	18.483	24.845	25.724	25.143	25.685	-	178.642
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	36.572	22.190	18.483	-	18.483	24.845	25.724	25.143	25.685	-	178.642

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

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

Description:

- The WGU-59B Advanced Precision Kill Weapon System II (APKWS II) is employed on the A-10 and F-16 aircraft. APKWS II AUR is composed of a fuse, M151/M282 warhead, WGU-59B guidance and control section, and a MK66 rocket motor launched from a LAU-131A/A or LAU-68F/A rocket launcher. 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 offers greater precision, reduced collateral damage, and increased standoff range to enhance crew survivability.

- The APKWS II guidance section is a mid-body, semi-active laser guidance and control kit that converts an unguided 2.75 inch rocket into a precision laser-guided rocket. APKWS II guidance sections are compatible with new and existing inventories of rocket motors, warheads, and launchers. The guidance sections are procured through Department of the Navy PMA-242 at Patuxent River Naval Air Station.

- The Air Force uses the 2.75 inch diameter rocket system to support various missions including low collateral damage engagements, target marking, and battle field illumination. The system can be employed from both high and low speed aircraft. The 2.75 inch diameter rocket motor (HA07) is a single stage, solid grain rocket motor used to propel unguided and guided payloads to their targets. The HA07 is able to carry the WGU-59B (HB24) Advanced Precision Kill Weapon System II (APKWS II) guidance section, and the following payloads: illuminating flare warhead (H812), infrared (IR) illuminating flare warhead (HA06/HB37), Signal Practice warhead (H872), White Phosphorus (WP) warhead (H855), M151 High Explosive warheads (H842 and H843), and M282A2 (HB45) Penetrator warhead. The 2.75 inch rockets are launched from reusable pods, the LAU-131A (H149) and LAU-131A/A (HA91) extended length launcher, carried on A-10 and F-16 aircraft. These items are procured by AFLCMC/EBH through the U.S. Army Missile Command, Tactical Aviation and Ground Munitions (TAGM), PEO Missile and Space at Redstone Arsenal, Alabama, and Department of the Navy PMA-242 at Patuxent River Naval Air Station and Naval Surface Warfare Center Indian Head Explosive Ordnance Disposal Technology Division (IHEODTD) at Indian Head, MD.

- The M151 (H843) warheads is a low-cost, low-collateral damage capabilities. The M282A2 MPP warhead provides aircrew and ground commanders greatly enhanced weaponing options to engage targets protected by urban and cave environments. Equipment such as MKIII, MKIV, and AN/USM-715 testers, peculiar support equipment, clamping and torquing fixtures and tools, or other assets that pertain to assembling and testing APKWS or unguided rockets are also procured.

- The Illuminating Flare (H812) and IR illuminating flare (HA06/HB37) warheads provide forward air control aircraft with the target locations from a standoff distance in a hostile environment.

- The Signal Practice (H872) warhead provides a training capability.

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

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 11: Rockets		P-1 Line Item Number / Title: 351010 / Rockets
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 112		
<p>- The LAU-131A/A (HA91) and the LAU-68F/A (HA94) are seven tube (capacity) extended length launchers that can accommodate both legacy length 2.75 inch diameter rockets and the extended length of the APKWS II rockets. The extended length launchers are designed to accommodate the guidance and control section within the launcher.</p> <p>- Items Less Than Five Million Dollars: All items have an annual procurement value of less than 5,000,000 and are Code A. These items are procured by AFLCMC/EBH through the U.S. Army Missile Command, Tactical Air to Ground Munitions (TAGM), PEO Missiles and Space at Redstone Arsenal Alabama, and/or the U.S. Navy PMA-242 at Patuxent River Naval Air Station. In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>Funding may be used to address production Diminishing Manufacturing Sources and Material Shortages (DMSMS) and obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement, to include electronic components used commercially and in short supply; and qualification activities to preserve future production capabilities and capacities.</p> <p>Note: Procurement quantities can change based on negotiated options/pricing bands and available funding, in accordance with Title 10, U.S. Code Section 2308 BUY-TO-BUDGET ACQUISITION.</p> <p>These funds may also procure inventoried items which may not be procured on an annual basis and could be required on an emerging basis. Variations to cover critical shortfalls to inventory objectives as well as actual and planned expenditures will be addressed during execution year.</p> <p>This program leverages Digital acquisition tenets of open, agile, and digital. Invests in analytical, information management, data management, digital environments, networks, facilities, and security infrastructure upgrades directly supporting development and sustainment of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions.</p> <p>Funding for this exhibit is contained in PE 0207599F and PE 0208030F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

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

Line Item MDAP/MAIS Code: 112

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	(H855) WHD 2.75 RKT SMK M156 PD M427				- / -	- / 2.500	- / 2.000	- / 1.800	- / -	- / 1.800
P-5	APKWS		A		- / -	- / 34.072	- / 20.190	- / 16.683	- / -	- / 16.683
P-40	Total Gross/Weapon System Cost				- / -	- / 36.572	- / 22.190	- / 18.483	- / -	- / 18.483

*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:
 FY2024 funding supports the purchase of rockets, launchers, warheads, and guidance sections to constitute the APKWS II all-up-round (AUR). Additionally, funding supports training and support equipment required for APKWS.

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force														Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 11							P-1 Line Item Number / Title: 351010 / Rockets							Aggregated Items Title: (H855) WHD 2.75 RKT SMK M156 PD M427					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware																				
Warhead SMK M156 (H855)	A		-	-	-	0.001	3,029	2,500	0.001	2,454	2,000	0.001	2,059	1,800	-	-	-	0.001	2,059	1,800
Subtotal: Hardware			-	-	-	-	-	2,500	-	-	2,000	-	-	1,800	-	-	-	-	-	1,800
Total			-	-	-	-	-	2,500	-	-	2,000	-	-	1,800	-	-	-	-	-	1,800

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

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Exhibit P-5, Cost Analysis: PB 2024 Air Force **Date:** March 2023

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

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	34.072	20.190	16.683	-	16.683
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	34.072	20.190	16.683	-	16.683
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	34.072	20.190	16.683	-	16.683

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

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

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

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Advanced Precision Kill Weapon System (APKWS) Cost																		
Recurring Cost																		
Guidance Section	-	-	-	0.025	491	12.200	0.025	161	4.000	0.025	91	2.300	-	-	-	0.025	91	2.300
(HA07) ROCKET MOTOR MK-66	-	-	-	0.001	14,912	16.433	0.001	7,190	9.958	0.002	6,133	9.200	-	-	-	0.002	6,133	9.200
(HA91) LAU-131A/A ROCKET LAUNCHER	-	-	-	0.010	306	3.080	0.010	254	2.625	0.011	250	2.653	-	-	-	0.011	250	2.653
Warhead M151	-	-	-	-	-	0.000	0.001	2,691	1.500	0.001	2,084	1.500	-	-	-	0.001	2,084	1.500
Warhead M282	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	31.713	-	-	18.083	-	-	15.653	-	-	-	-	-	15.653
<i>Subtotal: Hardware - Advanced Precision Kill Weapon System (APKWS) Cost</i>	-	-	-	-	-	31.713	-	-	18.083	-	-	15.653	-	-	-	-	-	15.653
Support - APKWS Cost																		
PSC Other Government Costs	-	-	-	-	-	2.359	-	-	2.107	-	-	1.030	-	-	-	-	-	1.030
<i>Subtotal: Support - APKWS Cost</i>	-	-	-	-	-	2.359	-	-	2.107	-	-	1.030	-	-	-	-	-	1.030
Gross/Weapon System Cost	-	-	-	-	-	34.072	-	-	20.190	-	-	16.683	-	-	-	-	-	16.683

Remarks:
Guidance Section quantities decreased in FY23 due to higher Air Force priorities.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	161.917	117.064	101.104	-	101.104	122.823	127.099	124.745	122.226	-	876.978
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	161.917	117.064	101.104	-	101.104	122.823	127.099	124.745	122.226	-	876.978
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	161.917	117.064	101.104	-	101.104	122.823	127.099	124.745	122.226	-	876.978

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

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

Description:

- FY2022 funding request included 40.741M requested for Non Enduring Requirements.
- FY2022 amounts reflect 7.246M in reductions in the FY22 Appropriation Act.
- FY2023 amounts reflect 7.100M mark in the FY23 Appropriation Act.
- FY2023 includes \$10,825 thousand in Overseas Operations Costs enacted budget.
- FY2024 includes \$9,800 thousand for the Overseas Operations Costs budget request.

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

IMPULSE CARTRIDGES:

- BBU-35 Impulse Cartridge (MG62): Deploys countermeasure chaff and ignites flares from the aircraft dispenser for multiple aircraft. Applicable to the M206, MJU-61, MJU-66, MJU-64, MJU-71, MJU-73, MJU-75, etc. countermeasure flares and RR170 and RR188 chaff.
- BBU-36 Impulse Cartridge (MG11): Deploys countermeasure flare on multiple aircraft to protect aircraft from IR weapons. Flare applications include: MJU-7, MJU-10, MJU-40, MJU-53 AND MJU-62.
- BBU-46 Impulse Cartridge (MT40): Deploys a MJU-23 countermeasure flare on the B-1.
- BBU-48 Impulse Cartridge (SS27): Deploys countermeasure chaff on multiple aircraft to protect aircraft from radar and radar guided weapons. Chaff applications include: RR-180 and RR-196.
- BBU-59 Impulse Cartridge (WD01): Deploys a MJU-39 countermeasure flare on the F-22.
- BBU-63 Impulse Cartridge (SS44): Bomb ejection cartridge used with the BRU-44 bomb rack on the B-2.
- ARD 446 Impulse Cartridge (WB33): Weapon and store release cartridge.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12: Cartridges		P-1 Line Item Number / Title: 352010 / Cartridges
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>-ARD 863 Impulse Cartridge (M189): Weapon and store release cartridge.</p> <p>-RR-170 Chaff (LY07): RF countermeasure; dispensed by BBU-35</p> <p>-RR-180 Chaff (SY16): RF countermeasure; dispensed by BBU-48</p> <p>-RR-188 Chaff (3W37): RF countermeasure; dispensed by BBU-35</p> <p>-RR-196 Chaff (CY94): RF countermeasure; dispensed by BBU-48</p> <p>-RR-196(T-1) Chaff (NY02): RF countermeasure; dispensed by BBU-48</p> <p>-RR-198/AL: F-35 operational chaff round dispensed by CCU-145. Procurement will be through a Navy managed contract vehicle.</p> <p>-RR-199: F-35 training chaff round dispensed by CCU-145. Procurement will be through a Navy managed contract vehicle.</p> <p>-CCU-106: Government-owned weapon and stores release cartridge. This cartridge will replace the proprietary ARD 446 cartridge over the next several years. Procurement will be through an Air Force managed contract vehicle.</p> <p>-CCU-107 (MT95): Government-owned weapon and stores release cartridge. This cartridge is currently used on the KC-46 and will replace the proprietary ARD 863 cartridge over the next several years. Procurement will be through a Navy managed contract vehicle.</p> <p>-CCU-136 (WA83): Deploys towed decoy; used with AN/ALE-70(V)1</p> <p>-CCU-145 (WB24): Deploys countermeasure flares from F-35. Applicable to MJU-68 and MJU-71</p> <p>-CCU-41 (MF60): Deploys towed decoy for F-15 and B-1; used with ALE-50</p> <p>-CCU-167 (DWGY): Cutter cart for steel hoist cables on helicopters and various towed targets on multiple aircraft</p> <p>-MK2 (M190): Weapons and pylons release cartridge; tanks and special equipment; cutter cartridge.</p> <p>-MK 107 MOD 1 (M943): Used on rotary launcher for B-1, MXU-611 Fuel Tank Release mechanism and LAU-93A Phoenix Missile Launcher</p> <p>-M21 (M500): Parachute reefing line cutter on C-17</p> <p>MEDIUM CALIBER AMMO:</p> <p>-25MM Target Practice (TP), PGU-23/U (A978): 25MM PGU-23 is a target practice round used in the GAU-12/A and GAU-22/A gun systems applicable to the AC-130U and F-35A aircraft. The round is a kinetic energy combat training round. Air Force procures PGU-23 through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.</p> <p>-25MM PGU-48/B (AB98): 25MM PGU-48/B (formerly Frangible Armor Piercing (FAP)) round to be used in GAU-22/A gun system on F-35/JSF. Air Force procures PGU-48/B through Hill AFB Contracting.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12: Cartridges		P-1 Line Item Number / Title: 352010 / Cartridges
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>-20MM PGU-28A/B (AA22): Primary combat round, high explosive incendiary used with the M61 gun system applicable to the F-15, F-16, and F-22 aircraft gun systems. 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 PGU-28A/B through the Single Manager for Conventional Ammunition (SMCA), Department of the Army and engineering support from the Navy.</p> <p>-20MM TP Round PGU-27A/B (AA24): This round is used for air-to-air and air-to-ground training in the M61 aircraft gun systems on F-15, F-16 and F-22 aircraft. The cartridge is electrically primed and has no fuze. The projectile is a solid slug sized to match the ballistics of the PGU-28A/B. The PGU-27A/B is the primary ammunition used by the 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 PGU-27A/B through the Army Single Manager for Conventional Ammunition (SMCA), Department of the Army and engineering support from the Navy.</p> <p>-20MM PGU-39 (A931): PGU-39 is a dummy round that provides gun system training, aids in troubleshooting, and is utilized to verify M61 gun system readiness. Air Force procures PGU-39 through Single Manager for Conventional Ammunition (SMCA), Department of the Army and engineering support from the Navy.</p> <p>-30MM HEI PGU-13D/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 PGU-13D/B from the Single Manager for Conventional Ammunition (SMCA), Department of the Army.</p> <p>-30MM Target Practice (TP) Cartridge PGU-15A/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 PGU-15A/B from the Single Manager for Conventional Ammunition (SMCA), Department of the Army.</p> <p>-30MM Combat Mix (AC56) (Formerly B103) consists of two Armor Piercing Incendiary rounds (PGU-14) and one High Explosive Incendiary (PGU-13) round and is employed on the GAU-8 cannon on the A-10 aircraft. Combat Mix is a primary combat ammunition for the A-10. The AF procures this item through Single Manager for Conventional Ammunition(SMCA).</p> <p>-30MM Urban Mix (AC29) consists of two High Explosive Incendiary (PGU-13) and one Target Practice (PGU-15) rounds and is employed on the GAU-8 cannon on the A-10 aircraft. Urban Mix is an alternate (lower collateral damage) combat ammunition for the A-10. The AF procures this item through Single Manager for Conventional Ammunition(SMCA).</p> <p>SMALL CALIBER/GROUND MUNITIONS:</p> <p>Funds may also be used to evaluate commercial off the shelf (COTS)/or government off the shelf (GOTS) products as a suitable replacement or enhancement to current capabilities.</p> <p>-7.62MM Ball Linked M80 (A143): The M240 Machine Gun requires this linked round, used against personnel and unarmored targets. Air Force procures this item through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.</p> <p>-5.56MM Blue Marking Cartridge (AC39): 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> <p>-5.56MM Frangible (AA40): This is the primary training round for the Air Force and consists of a lead-free small rifle primer in a brass cartridge case. These cartridges are more environmentally friendly than standard 5.56MM ball cartridges. The case is made of reusable/recyclable brass, which is the same as 5.56MM ball ammunition. The 5.56MM frangible cartridges are used in M16-series rifles, which include M4 rifles. The Air Force procures this item through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12: Cartridges		P-1 Line Item Number / Title: 352010 / Cartridges
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>-5.56MM Ball M855 (AB57): This is a lead-free primary combat round used in the M16A2 and M4 rifles, against personnel and unarmored targets. Air Force procures this item through the Single Manager for Conventional Ammunition (SMCA), Department of the Army.</p> <p>-AB67: 5.56 clipped Short Range Training Ammunition SRTA. This round is used at ranges where traditional ball round ammunition would penetrate the back stop, posing a danger to nearby, highly populated areas.</p> <p>-Items Less Than Five Million Dollars: All items have an annual procurement of less than 5,000,000 and are Code A.</p> <p>These funds may also procure inventoried items which may not be procured on an annual basis and could be required on an emerging basis. Variations to cover critical shortfalls to inventory objectives as well as actual and planned expenditures will be addressed during execution year.</p> <p>Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>Funding for this exhibit contained in PEs 0207580F, 0207599F, 0208015F and 0208030F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	IMPULSE CARTRIDGES				- / -	- / 26.483	- / -	- / -	- / -	- / -
P-40a	Small Cal/Ground Munitions				- / -	- / 54.549	- / 52.583	- / 54.946	- / -	- / 54.946
P-40a	Medium Cal Ammo				- / -	- / 80.885	- / 64.481	- / 46.158	- / -	- / 46.158
P-40	Total Gross/Weapon System Cost				- / -	- / 161.917	- / 117.064	- / 101.104	- / -	- / 101.104

*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:

This program, Cartridges P-40A Category AMMUNITION CARTRIDGES Item (A131) CTG, 7.62MM BALL 4-1 LINKED, is a new start.
This program, Cartridges P-40A Category AMMUNITION CARTRIDGES Item (AB39) 7.62MM SPECIAL BALL, LONG RANGE, is a new start.
This program, Cartridges P-40A Category AMMUNITION CARTRIDGES Item (AB65) .50 Reduced Range, is a new start.
This program, Cartridges P-40A Category Medium Cal Item (A978) CTG, 25MM, TP (PGU-23/U), is a new start.

FY2024 funds purchase 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. FY2024 funding totals include \$9.800M requested for Over-the-Horizon and/or Enduring Requirements. Variations in final mix and quantities of these items to cover critical shortfalls to inventory objectives, as well as actual and planned expenditures, will be addressed during execution year.

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.

MEDIUM CALIBER AMMO:

- 20MM PGU-28 (AA22): This procurement will fulfill WRM requirements. Current stockpile inventory is 49% of total inventory objective and has low combat use.
- 20MM PGU-27 (AA24): NEXT PROCUREMENT ACTION IS PROJECTED IN 2024
- 30MM PGU-15 (B116): Procurement of PGU-15 is critical to replenish of WRM stockpiles to support pilot training and proficiency. Current stockpile inventory is 48% of total inventory objective.
- 30MM PGU-13 (B104): Procurement of PGU-13 is critical to replenishment of WRM stockpiles to support training and combat operations. Current stockpile inventory is 37% of total inventory objective.
- 30MM Combat Mix (AC56): NO PROCUREMENT ACTION IS PENDING. Current stockpile and scheduled deliveries will bring supportability to 93% by FY27.
- 30MM Urban Mix (AC29): NO PROCUREMENT ACTION IS PENDING. Current stockpile is at 61% supportability.
- 25MM PGU-48/B (AB98): Current programmed procurements will fulfill WRM requirements. Current stockpile inventory is 21% of total inventory objective.
- 25MM PGU-23 (A978): NEXT PROCUREMENT ACTION IS PROJECTED IN 2024

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force		Date: March 2023
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		

IMPULSE CARTRIDGES: FY23 procurement of Impulse Cartridges has been transferred to Flares/WSC 356010, Expendable Countermeasures, to better align with their purpose/use, and is justified there.

SMALL CALIBER/GROUND MUNITIONS:
See SMALL CAL/GROUND MUNITIONS P-40a

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 **P-1 Line Item Number / Title:** 352010 / Cartridges **Aggregated Items Title:** IMPULSE CARTRIDGES

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Impulse Cartridges																				
(MT40) BBU-46	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(WB33) ARD-446	A		-	-	-	0.000	158,730	1.500	-	-	0.000	-	-	-	-	-	-	-	-	-
(3W37) CHAFF, RR-188	A		-	-	-	0.000	385,463	1.750	-	-	-	-	-	-	-	-	-	-	-	-
(JN31) CU-168 SQUIB	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(M189) ARD-863	A		-	-	-	0.000	164,204	1.000	-	-	-	-	-	-	-	-	-	-	-	-
(M943) MK107 IMPULSE CARTRIDGE	A		-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
(MT95) CCU-107	A		-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
(YWAP) RR-198	A		-	-	-	0.000	6,000	1.530	-	-	-	-	-	-	-	-	-	-	-	-
(YWAQ) RR-199	A		-	-	-	0.000	2,000	0.153	-	-	-	-	-	-	-	-	-	-	-	-
(MG11) CTG, IMPULSE, BBU-36/B	A		-	-	-	0.000	416,667	1.700	-	-	-	-	-	-	-	-	-	-	-	-
(MG62) BBU-35/ B IMPULSE CARTRIDGE	A		-	-	-	0.000	1,795,455	3.950	-	-	-	-	-	-	-	-	-	-	-	-
(MT40) BBU-46 SQUIB, ELECTRIC	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(NY02) CHAFF, RR-196(T-1)AL	A		-	-	-	0.000	65,634	2.500	-	-	-	-	-	-	-	-	-	-	-	-
(SS-27) BBU-48/ B IMPULSE CARTRIDGE	A		-	-	-	0.000	545,024	4.600	-	-	-	-	-	-	-	-	-	-	-	-
(SS44) BBU63/ B IMPULSE CARTRIDGE	A		-	-	-	0.001	3,162	2.000	-	-	-	-	-	-	-	-	-	-	-	-
(LY07) RR-170 CHAFF CARTRIDGE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(SY16) RR-180 CHAFF CARTRIDGE	A		-	-	-	0.000	308,914	3.500	-	-	-	-	-	-	-	-	-	-	-	-
(MF60) CCU-41	A		-	-	-	0.000	60,000	0.300	-	-	-	-	-	-	-	-	-	-	-	-
(M190) MK-2	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(WB24) CCU-145	A		-	-	-	0.000	404,858	2.000	-	-	-	-	-	-	-	-	-	-	-	-
Items less than 5 M	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(DWGY) CCU-167/B	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Impulse Cartridges			-	-	-	-	-	26.483	-	-	0.000	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	26.483	-	-	-	-	-	-	-	-	-	-	-	-

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 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 **P-1 Line Item Number / Title:** 352010 / Cartridges **Aggregated Items Title:** Small Cal/Ground Munitions

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AMMUNITION CARTRIDGES																				
(A014) CTG, 12 GA SHOTGUN, 7-1//2 PLASTIC	A		-	-	-	0.000	14,634	0.012	0.000	55,556	0.025	0.000	56,818	0.025	-	-	-	0.000	56,818	0.025
(A011) CTG 12 GAUGE NO. 00 BUCKSHOT	A		-	-	-	0.000	80,645	0.050	0.000	133,333	0.100	0.000	133,333	0.100	-	-	-	0.000	133,333	0.100
(A017) CTG, 12 GA BUCKSHOT	A		-	-	-	0.000	71,429	0.025	0.000	31,250	0.025	-	-	-	-	-	-	-	-	-
(A062) CTG, 5.56MM BALL M855 LINKED	A		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
(A059) 5.56 BALL M855 CLIPPED	A		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
(A080) CTG, 5.56MM BLANK M200	A		-	-	-	0.000	434,783	0.100	0.000	3,529,412	0.600	0.000	2,608,696	0.600	-	-	-	0.000	2,608,696	0.600
(A091) CTG, .22 CAL LONG RIFLE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A131) CTG, 7.62MM BALL 4-1 LINKED	A		-	-	-	-	-	-	-	-	-	0.000	1,271,186	0.750	-	-	-	0.000	1,271,186	0.750
(A143) 7.62MM BALL LINKED (M80)	A		-	-	-	0.000	4,634,146	3.800	0.000	5,000,000	3.500	0.000	4,268,293	3.500	-	-	-	0.000	4,268,293	3.500
(A164) CTG, 7.62MM LINKED	A		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
(A246) CTG, .30 CAL BALL BULK	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A165) CARTRIDGE 7.62MM M80	A		-	-	-	0.000	4,855,073	3.350	-	-	-	0.000	714,286	0.400	-	-	-	0.000	714,286	0.400
(A257) CTG, 7.62MM 9-1 DIM TRACER	A		-	-	-	0.000	285,714	0.200	-	-	-	0.000	281,690	0.200	-	-	-	0.000	281,690	0.200
(A363) 9MM BALL NATO XM882 PISTOL	A		-	-	-	-	-	-	0.000	714,286	0.500	0.000	2,272,727	0.500	-	-	-	0.000	2,272,727	0.500
(A358) 9MM SUBCAL AT4 TRACER	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A404) CTG, .38 CAL SP BALL WADCUTTER	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A475) CTG, CAL .45 BALL M1911	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A482) CTG CAL .45 BALL WADCUTTER	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A483) CTG CAL .45 BALL M1911 MTCHGRD	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 **P-1 Line Item Number / Title:** 352010 / Cartridges **Aggregated Items Title:** Small Cal/Ground Munitions

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
(A552) CTG, .50 CAL BALL SINGLE ROUND, M33	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(A555) CTG, CAL .50 BALL M2 LINKED	A		-	-	-	0.000	961,538	2.500	0.000	1,153,846	3.000	0.000	1,376,147	3.000	-	-	-	0.000	1,376,147	3.000
(A557) CTG, CAL .50 BALL/TRACER/ LINKED M2/M9	A		-	-	-	0.000	1,218,638	3.400	0.000	1,218,638	3.400	0.000	1,517,857	3.400	-	-	-	0.000	1,517,857	3.400
(A598) CTG CAL.50 BLNK CRMPD W/M9 LNK	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A606) CTG, CAL.50 API MK211 MOD 0	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A607) CTG, .50 CAL ARMOR PIERCING INCENDIARY	A		-	-	-	0.000	59,406	0.600	0.000	99,010	1.000	-	-	-	-	-	-	-	-	-
(AA02) CTG 5.56MM AP/TR M995/M856 4-1	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AA03) CTG. 7.62 M993 AP	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AA04) CTG. 7.62MM 4 AP M9331/1TR M62 W/LK M13	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AA11) CTG. 7.62 NATO M118 SPEC BALL	A		-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
(AA16) 9 MILLIME CARTRIDGE FRANG	A		-	-	-	0.000	6,000,000	6.000	0.000	12,121,212	4.000	0.000	15,625,000	5.000	-	-	-	0.000	15,625,000	5.000
(AA40) 5.56 FRANGIBLE	A		-	-	-	0.000	39,487,179	15.400	0.000	43,181,818	19.000	0.000	45,120,000	20.304	-	-	-	0.000	45,120,000	20.304
(AA51) 12 GA NON-LETHAL PT-CONT	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AA52) 12 GA NON-LETHAL CROWD	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AA53) CTG 5.56 SPECIAL MK262 MOD 1	A		-	-	-	0.000	1,052,632	0.400	-	-	-	0.000	1,562,500	1.000	-	-	-	0.000	1,562,500	1.000
(AB10) 5.56 RED MARKING CARTRIDGES	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AB13) 9MM BLUE MARKING CARTRIDGE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AB14) 9M RED MARKING CARTRIDGE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 **P-1 Line Item Number / Title:** 352010 / Cartridges **Aggregated Items Title:** Small Cal/Ground Munitions

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
(AB39) 7.62MM SPECIAL BALL, LONG RANGE	A		-	-	-	-	-	-	-	-	0.000	192,308	0.150	-	-	-	0.000	192,308	0.150	
(HA29) 66MM HIGH EXP LITE ANTI TANK WEAPON	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(C995) AT-4 84MM ROCKET	A		-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	
(AB16) 5.56 BLUE MARKING CARTRIDGE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(AB56) 5.56MM M855A1 LINKED LEAD FREE CART	A		-	-	-	0.000	2,884,615	1.500	0.000	711,538	0.370	0.000	1,000,000	0.370	-	-	0.000	1,000,000	0.370	
(AB57) 5.56MM M855A1 CLIPPED, LEAD FREE	A		-	-	-	0.000	1,041,667	0.500	0.000	520,833	0.250	0.000	694,444	0.250	-	-	0.000	694,444	0.250	
(AB46) 5.56MM SINGLE ROUND DUMMY	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(AB47) 7.62MM DUMMY	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(AB48) .50 CAL SINGLE DUMMY CART	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(AB72) CTG, 7.62MM SINGLE ROUND BLANK (was A112)	A		-	-	-	0.000	190,476	0.160	-	-	-	-	-	-	-	-	-	-	-	
(AB65) .50 Reduced Range	A		-	-	-	-	-	-	-	-	0.000	100,000	0.300	-	-	-	0.000	100,000	0.300	
(AB67) 5.56 MM PLASTIC	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(AB73) 5.56 M856 A1 LEAD FREE	A		-	-	-	0.000	847,458	0.500	0.000	847,458	0.500	0.000	833,333	0.500	-	-	0.000	833,333	0.500	
(AB74) 5.56 TRACER ROUND	A		-	-	-	0.000	64,103	0.100	-	-	-	-	-	-	-	-	-	-	-	
(AB75) 5.56 LINKDED M855A1/M86A1	A		-	-	-	0.000	500,000	0.500	-	-	-	-	-	-	-	-	-	-	-	
(AC20) 9MM BALL	A		-	-	-	0.000	31,431,579	5.972	0.000	15,789,474	3.000	0.000	15,789,474	3.000	-	-	0.000	15,789,474	3.000	
(AC21) 9MM HOLLOW POINT	A		-	-	-	0.000	1,818,182	0.400	0.000	1,818,182	0.400	0.000	1,818,182	0.400	-	-	0.000	1,818,182	0.400	
(AC36) 9MM BLUE MARKING CARTRIDGE	A		-	-	-	0.000	757,576	0.500	-	-	-	0.000	687,692	0.447	-	-	0.000	687,692	0.447	

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 **P-1 Line Item Number / Title:** 352010 / Cartridges **Aggregated Items Title:** Small Cal/Ground Munitions

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
(AC37) 9MM RED MARKING CARTRIDGE	A		-	-	-	0.000	746,269	0.500	0.000	1,119,403	0.750	0.000	1,119,403	0.750	-	-	-	0.000	1,119,403	0.750
(AC39) 5.56 BLUE MARKING CARTRIDGE	A		-	-	-	0.000	4,605,263	3.500	0.000	3,947,368	3.000	0.000	4,347,826	3.000	-	-	-	0.000	4,347,826	3.000
(AC40) 5.56 RED MARKING CARTRIDGE	A		-	-	-	0.000	743,243	0.550	0.000	2,985,075	2.000	0.000	2,985,075	2.000	-	-	-	0.000	2,985,075	2.000
(AY04) CTG 12 GAGE BIRD SCARE	A		-	-	-	0.000	30,000	0.030	-	-	0.000	-	-	-	-	-	-	-	-	-
(AC42) 5.56 DYE MARKING ROUND BLUE LINKED	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(B508) 40MM CTG GREEN SMOKE M175	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(B509) 40MM CTG YELLOW SMOKE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(B519) CARTRIDGE, 40MM PRACTICE M781	A		-	-	-	0.000	2,000,000	2.000	0.000	185,874	1.000	0.000	370,370	2.000	-	-	-	0.000	370,370	2.000
(B584) 40MM CART LINKED	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(B535) 40MM SWS M583	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(B542) 40 MIL CARTRIDGE HEDP	A		-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
(B576) CTG, 40MM PRACTICE, LINKED, HIGH VELOCITY	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AIR FORCE SHOOTING TEAM	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(BA21) 40MM PRACTICE, DAY/ NIGHT LINKED	A		-	-	-	0.000	125,000	2.000	0.000	55,556	1.500	0.000	111,111	3.000	-	-	-	0.000	111,111	3.000
(BA54) 40MM PRACTICE, DAY/ NIGHT LINKED	A		-	-	-	-	-	-	0.000	30,769	0.500	-	-	-	-	-	-	-	-	-
(CA30) 84MM M136A1 AT4CS RS	A		-	-	-	-	-	-	0.003	107	0.300	-	-	-	-	-	-	-	-	-
(HB26) M72A8 LAW Fire From Enclosure (FFE) and NVD Mount	A		-	-	-	-	-	-	0.009	454	3.863	-	-	-	-	-	-	-	-	-
(LA51) SIMULATOR, SMALL ARMS FIRE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12	P-1 Line Item Number / Title: 352010 / Cartridges	Aggregated Items Title: Small Cal/Ground Munitions
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
(LA52) SIMULATOR, SMALL ARMS FIRE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: AMMUNITION CARTRIDGES			-	-	-	-	-	54.549	-	-	52.583	-	-	54.946	-	-	-	-	-	54.946
Total			-	-	-	-	-	54.549	-	-	52.583	-	-	54.946	-	-	-	-	-	54.946

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). Prices can change based on 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:
 The Navy procures Chaff and some Impulse Cartridge (all CCU and MK cartridges) items based on planned Air Force and Navy requirements.

Small Cal/Ground Munitions:
 - FY2023 Overseas Operations Costs funding accounted for in the Base budget total \$10,825 thousand.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 12 **P-1 Line Item Number / Title:** 352010 / Cartridges **Aggregated Items Title:** Medium Cal Ammo

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Medium Cal																				
(A931) 20MM, PGU -29	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A978) CTG, 25MM, TP (PGU-23/U)	A		-	-	-	-	-	-	-	-	-	0.000	210,526	8.000	-	-	-	0.000	210,526	8.000
(AA22) 20MM, PGU-28 A/B Semi-AP, HEI	A		-	-	-	0.000	223,663	7.000	0.000	239,360	6.800	0.000	297,530	10.000	-	-	-	0.000	297,530	10.000
(AA11) 7.62MM, SP Ball M118	A		-	-	-	0.000	6,666	0.200	-	-	0.000	-	-	-	-	-	-	-	-	-
(AA24), 20MM, TP PGU-27 A/B	A		-	-	-	0.000	228,612	3.196	-	-	-	-	-	-	-	-	-	-	-	-
(AA94) 30MM, PGU-15	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AB18) 30MM, PGU-13 D/B	A		-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
(AB98) 25MM PGU-48/B	A		-	-	-	0.000	97,054	14.400	0.000	89,162	14.381	-	-	-	-	-	-	-	-	-
(AC29) 30MM, URBAN MIX	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AC56) COMBAT MIX 2:1	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(B103) COMBAT MIX	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(B104) 30MM, PGU-13/B	A		-	-	-	0.000	971,599	13.000	0.000	246,125	15.000	-	-	-	-	-	-	-	-	-
(B116) 30MM PGU-15/B, TP	A		-	-	-	0.000	1,927,477	43.089	0.000	1,142,577	28.300	0.000	971,971	28.158	-	-	-	0.000	971,971	28.158
PMA	A		-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
Subtotal: Medium Cal			-	-	-	-	-	80.885	-	-	64.481	-	-	46.158	-	-	-	-	-	46.158
Total			-	-	-	-	-	80.885	-	-	64.481	-	-	46.158	-	-	-	-	-	46.158

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 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 353010 / Practice Bombs
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	48.745	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	48.745
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	48.745	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	48.745
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	48.745	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	48.745

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

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

Description:

Note: Beginning in FY2023 funding for P-1 Line Item 353010/Practice Bombs has been transferred to P-1 Line Item 353020/General Purpose Bombs and is justified in that line item.

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

- BDU-56D/B: A 2,000-pound, non-explosive training shape, without internal plumbing, used to provide combat forces with aircrew weapons delivery training. The BDU-56 simulates the drop trajectory of a live MK-84/BLU-117. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.
- BDU-50/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/BLU-111. This item is procured through the SMCA/Army.
- MK-84 Inert: : A 2,000-pound, non-explosive training shape, with internal plumbing, used to provide combat forces with aircrew weapons delivery training. The MK-84 Inert simulates the drop trajectory of a live MK-84/BLU-117. This item is procured through the SMCA/Army.
- BDU-33: A 25-pound, non-explosive, tear shaped, practice bomb used to simulate the 500 lb. MK-82/BLU-111 and 2000 lb. MK-84/BLU-117 general purpose, non-guided, bombs in a low drag configuration. Upon impact the bomb drives a firing pin assembly against a primer activating the signal charge, permitting visual evaluation of accuracy. This item is procured through the SMCA/Army.
- MK4 Mod 3, Signal Cartridge: The cartridge consists of an aluminum case. The rim end has a percussion primer, and the opposite end is sealed with an aluminum disk. The cartridge produces a flash of light and a puff of smoke. The MK4 Mod 3 is primarily used for night operations as a visual indication of bomb impact and fuze function. This item is procured through the SMCA/Army.
- CXU-3A/B, Signal Cartridge: The cartridge consists of an aluminum case. The rim end has a percussion primer, and the opposite end is sealed with an aluminum disk. The cartridge produces a dense, white smoke display. The CXU-3A/B is primarily used for day operations as a visual indication of bomb impact and fuze function. This item is procured through the SMCA/Army.

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

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs		P-1 Line Item Number / Title: 353010 / Practice Bombs
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), 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.		
These funds may also procure inventoried items which may not be procured on an annual basis and could be required on an emerging basis. Variations to cover critical shortfalls to inventory objectives as well as actual and planned expenditures will be addressed during execution year. Examples include, but are not limited to, BDU-56/B, BDU-50C/B, MK-84 Inert, BDU-33, MK4 Mod 3 Signal Cartridge, and CXU-3A/B Signal Cartridge.		
Funding for this exhibit contained in PE 0207599F.		
Justification: No FY2024 funding requested.		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	160.976	148.102	142.118	-	142.118	144.453	180.435	176.511	180.323	-	1,132.918
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	160.976	148.102	142.118	-	142.118	144.453	180.435	176.511	180.323	-	1,132.918
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	160.976	148.102	142.118	-	142.118	144.453	180.435	176.511	180.323	-	1,132.918

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

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

Description:

- FY22 amounts reflect \$15.589M in reductions in the FY22 Appropriations Act.
- FY23 amounts reflect \$14.198M in reductions in the FY23 Appropriations Act.

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 2000 pound (lb) 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, UT.
- MXU-650 Fin Assembly kit (EC32) consists of a tail fin, forward canards and attachment hardware needed to assemble the GBU-12 (MK-82 Warhead, 500lb class) Laser Guided Bomb (LGB). This Fin assembly kit, coupled with a Computer Control Group (ED58) complete the GBU-12 weapons build. These weapons are primarily used for precision bombing against non-hardened targets. This item is procured by Munitions Sustainment Division at Hill AFB.
- MAU-209/MAU-169 (ED58) GBU-10/12 Computer Control Group is a laser homing guidance unit used on the GBU-10 and GBU-12 Laser Guided Bombs, (GBU-10, MK-84 Warhead, 2000lb class or GBU-12, MK-82 Warhead, 500lb class). The system has folding wings which open upon release for maneuverability and increased aircraft payload. This item is procured by Hill AFB. Laser Guided Bombs are essential to meeting training, operational and inventory objective requirements worldwide for precision bombing against hardened and non-hardened targets. Yearly procurements ensure the necessary stock on hand to meet these requirements. Paveway II telemetry (TM) kits are radio monitored modules installed in the GBU-10, 12 and 16 weapon systems that monitor and track data during flight. They provide essential data for issues such as flight failures and weapon accuracy as well as data for the long term sustainment of the weapon system.
- BLU-117/MK-84 is a 2,000lb 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 (GBU-31) 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). The MK-84 is a tritonal-filled variant.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs		P-1 Line Item Number / Title: 353020 / General Purpose Bombs
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>- BLU-111/MK-82 is a 500lb 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 (GBU-38/54) weapon systems. The BLU-111 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). The MK-82 is a tritonal-filled variant.</p> <p>- BLU-140 (previously BLU-111 ECP / BLU-111 all variants) is a 500-lbs General Purpose Bomb, maintaining the Outer Mold Line of the MK-82 with an internal case designed for penetration. It can be employed as a general purpose/penetrator bomb delivered in the GBU-38 or GBU-54 configurations when combined with other Air Force commodities. BLU-140 has demonstrated improved effectiveness against certain hard targets, including multi-story and bunker-style targets, while increasing aircraft loadout capacity enabling more targets per sortie in the intended Area of Responsibilities (AORs). The weapon is employed by the two threshold airframes (F-16 and B-2), and objective airframes (any airframe compatible with the MK-82). Funding may be used to correct BLU-140 deficiencies resulting in new fielding nomenclatures.</p> <p>- BLU-109 warhead is a 2000lb hard target penetrator bomb used against bunkers, aircraft shelters, and reinforced concrete structures. The warhead is used on the GBU-10, 24, and 27 as well as Joint Direct Attack Munition (JDAM) GBU-31V3 weapon systems. This item is procured through the Army Single Manager for Conventional Ammunition (SMCA). Variants are filled with tritonal or with a more Insensitive munitions (IM) compliant fill.</p> <p>- BLU-137 Advanced 2,000lb Penetrator (A2K) is a weapon used against bunkers, aircraft shelters, and reinforced concrete structures and is compatible with the JDAM guidance tail kit. The BLU-137/B is an advanced/modernized design to the BLU-109 warhead with increased reliability and survivability to prosecute increased target sets. Procurement started in FY18 at Eglin AFB (AFLCMC/EBD) and has since transitioned to Hill AFB (AFLCMC/EBH), 1QFY2023.</p> <p>- BLU-129/B Composite Case Warhead - Carbon fiber composite case for high near-field lethality to deliver 3x reduction in collateral damage. This item is procured through the Army Single Manager for Conventional Ammunition (SMCA).</p> <p>- BLU-138/GBU-72 Advanced 5,000lb Penetrator (A5K) has optimized performance against the HTM AoA priority target set of tunnels and bunkers. With enhanced survivability, increased lethality, smart fuzing and utilization of fielded JDAM Navigation tailkits, the GBU-72 significantly improved performance reducing the number of weapons required to achieve a kill at lower AUR cost. A5K will replace the GBU-28.</p> <p>- MK-81 is a 250lb class general purpose bomb. The bomb is designed for soft, fragment sensitive targets, such as troops, POL, and radars. The item is procured through Army Single Manager for Conventional Ammunition (SMCA).</p> <p>- Next Generation Area Attack Weapons (NGAAWs) are a family of unitary area attack weapons which meet the DoD policy on cluster munitions. It consists of both the BLU-134/B and BLU-136/B warheads with a height of burst sensor. The BLU-134/B, Improved Lethality Warhead (ILW), Next Generation Area Attack Weapon Increment I, is a 500lb area attack warhead with improved lethality against personnel and materiel targets. The unitary warhead meets DoD policy on cluster munitions. EBH pursued to qualify a Tritonal filled version of the BLU-134 A/B and secured an IM waiver and funding was used to procure the BLU-134A/B Tritonal variant. The BLU-136/B, Next Generation Area Attack Weapon Increment II, is a 2,000lb area attack warhead which, augmented by the BLU-134/B, provides for significant improved lethality against personnel and materiel targets and meets DoD policy on cluster munitions.</p> <p>- Items Less Than Five Million Dollars: All items have an annual procurement of less than 5,000,000 and are Code A. These items may include but not limited to lugs, pallets, etc.</p> <p>- BDU-56: A 2,000-pound, non-explosive training shape, without internal plumbing, used to provide combat forces with aircrew weapons delivery training. The BDU-56 simulates the drop trajectory of a live MK-84/BLU-117. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.</p> <p>- BDU-50: 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/BLU-111. This item is procured through the SMCA/Army.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs		P-1 Line Item Number / Title: 353020 / General Purpose Bombs
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>- MK-84 Inert: : A 2,000-pound, non-explosive training shape, with internal plumbing, used to provide combat forces with aircrew weapons delivery training. The MK-84 Inert simulates the drop trajectory of a live MK-84/BLU-117. This item is procured through the SMCA/Army.</p> <p>- BDU-33: A 25-pound, non-explosive, tear shaped, practice bomb used to simulate the 500 lb. MK-82/BLU-111 and 2000 lb. MK-84/BLU-117 general purpose, non-guided, bombs in a low drag configuration. Upon impact the bomb drives a firing pin assembly against a primer activating the signal charge, permitting visual evaluation of accuracy. This item is procured through the SMCA/Army.</p> <p>- MK4 Mod 3, Signal Cartridge: The cartridge consists of an aluminum case. The rim end has a percussion primer, and the opposite end is sealed with an aluminum disk. The cartridge produces a flash of light and a puff of smoke. The MK4 Mod 3 is primarily used for night operations as a visual indication of bomb impact and fuze function. This item is procured through the SMCA/Army.</p> <p>- CXU-3A/B, Signal Cartridge: The cartridge consists of an aluminum case. The rim end has a percussion primer, and the opposite end is sealed with an aluminum disk. The cartridge produces a dense, white smoke display. The CXU-3A/B is primarily used for day operations as a visual indication of bomb impact and fuze function. This item is procured through the SMCA/Army.</p> <p>Funds may be used to address production Diminishing Manufacturing Sources (DMS)/Material Shortages/Obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement, to include electronic components used commercially and in short supply, and qualification activities to preserve future production capabilities and capacities.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>These funds may also procure inventoried items which may not be procured on an annual basis and could be required on an emerging basis. Variations to cover critical shortfalls to inventory objectives as well as actual and planned expenditures will be addressed during execution year. Examples include, but are not limited to, BDU-56/B, BDU-50C/B, MK-84 Inert, BDU-33, MK4 Mod 3 Signal Cartridge, and CXU-3A/B Signal Cartridge.</p> <p>Portion of FY22-FY24 funding will be used for facilitization efforts. This will enhance production line capacity required to replenish inventory, accommodate large caliber warheads, and provide for alternative explosive fills.</p> <p>Funding for this exhibit is contained in PEs 0208030F and 0207599F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	500LB GP Bomb Variants				- / -	- / 80.200	- / -	- / -	- / -	- / -
P-40a	(ED78) BLU-129/B 500LB BOMB				- / -	- / 10.000	- / 0.000	- / -	- / -	- / -
P-40a	(EE59) BLU-137/A2K				- / -	- / 1.500	- / 6.000	- / -	- / -	- / -
P-40a	A5K (GBU-72)				- / -	- / 16.333	- / 26.500	- / 28.300	- / -	- / 28.300
P-40a	BLU-136/B 2000LB GP BOMB				- / -	- / 27.600	- / 41.500	- / 35.000	- / -	- / 35.000
P-40a	GENERAL PURPOSE BOMBS (ITEMS LESS THAN \$5 MILLION)				- / -	- / 25.343	- / 28.300	- / 15.600	- / -	- / 15.600
P-40a	PRACTICE BOMBS				- / -	- / -	- / 45.802	- / 63.218	- / -	- / 63.218
P-40	Total Gross/Weapon System Cost				- / -	- / 160.976	- / 148.102	- / 142.118	- / -	- / 142.118

*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:

FY2024 funds purchase 250, 500, 1,000, 2,000, and 5,000 pound conventional general purpose bombs, guidance and control kits, and energetics to provide precision bombing capability. In addition, funds may be used for equipment or support required to enhance production line capacity as required for inventory replenishment, as well as obsolescence and deficiency corrections. These weapons are used to defeat non-hard, hardened and deeply buried targets, bunkers, aircraft shelters, reinforced concrete structures and various armored targets. Built up with assorted componentry, the bombs can also be employed as Joint Direct Attack Munitions or Laser Guided Bombs.

This program leverages Digital acquisition tenets of open, agile, and digital. Invests in analytical, information management, data management, digital environments, networks, facilities, and security infrastructure upgrades directly supporting development and sustainment of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions.

The USAF Practice Bombs budget has been consistently underfunded to replenish annual expenditures and to be able to support HAF/A4 training requirements. The FY2024 budget submission was calculated to provide enough funding to replace the average annual expenditures for the BDU-56, BDU-50, and BDU-33 non-explosive training bombs and also MK4 Mod 3 and CXU-3A/B Signal Cartridges 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. If the Practice Bombs budget continues to be reduced/cut then inventory levels will drop below inventory objectives within the FYDP. BDU-56s and MK4 Mod 3 signal cartridges are currently below inventory objectives.

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

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 **P-1 Line Item Number / Title:** 353020 / General Purpose Bombs **Aggregated Items Title:** 500LB GP Bomb Variants

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
500 LB Variants																				
(ED15) BLU-111 500LB GP BOMB	A		-	-	-	0.005	2,000	10.000	-	-	-	-	-	-	-	-	-	-	-	
(485) MK-82 500LB GP BOMB, Tritonal	A		-	-	-	0.005	4,800	24.000	-	-	-	-	-	-	-	-	-	-	-	
BLU-140 500LB Penetrator	A		-	-	-	0.051	906	46.200	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: 500 LB Variants			-	-	-	-	-	80.200	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	80.200	-	-	-	-	-	-	-	-	-	-	-	

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

Remarks:
 BLU-140 (formally known as BLU-111 ECP) AUR unit cost for FY22 is 52,282 per bomb; FY23 is 53,686 per bomb.
 BLU-140 (formally known as BLU-111 ECP) AUR has other government costs which make up the delta in the funding line.

Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BLU-129	A		-	-	-	0.040	250	10.000	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Uncategorized			-	-	-	-	-	10.000	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	10.000	-	-	0.000	-	-	-	-	-	-	-	-	

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

Remarks:
 BLU-129/B Composite Case Warhead - carbon fiber composite case for high near-field lethality to deliver 3x reduction in collateral damage.
 Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Aggregated Items Title: (EE59) BLU-137/A2K
--	--	--

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware																				
BLU-137/A2K	A		-	-	-	-	-	1.500	0.057	105	6.000	-	-	-	-	-	-	-	-	
Subtotal: Hardware			-	-	-	-	-	1.500	-	-	6.000	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	1.500	-	-	6.000	-	-	-	-	-	-	-	-	

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

Remarks:
 A2K actual AUR unit cost for FY22 is 56,319; FY23 is 57,346; and for FY24 is 58,404 per bomb.
 A2K has other government costs which make up the delta in the funding line.

Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Aggregated Items Title: A5K (GBU-72)
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BLU-138/A5K	A		-	-	-	-	-	16.333	0.331	80	26.500	0.354	80	28.300	-	-	-	0.354	80	28.300
Subtotal: Uncategorized			-	-	-	-	-	16.333	-	-	26.500	-	-	28.300	-	-	-	-	-	28.300
Total			-	-	-	-	-	16.333	-	-	26.500	-	-	28.300	-	-	-	-	-	28.300

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

Remarks:
 BLU-138 AUR unit cost for FY22 is 202,981 per bomb; FY23 is 207,951 per bomb, and for FY24 is 213,534 per bomb. A5K has other Government costs which make up the delta in the funding line.
 Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Aggregated Items Title: BLU-136/B 2000LB GP BOMB
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BLU-136/B, 2,000 lb.	A		-	-	-	0.044	627	27.600	0.042	1,000	41.500	0.047	750	35.000	-	-	-	0.047	750	35.000
Subtotal: Uncategorized			-	-	-	-	-	27.600	-	-	41.500	-	-	35.000	-	-	-	-	-	35.000
Total			-	-	-	-	-	27.600	-	-	41.500	-	-	35.000	-	-	-	-	-	35.000

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

Remarks:
 Next Generation Area Attack Weapons (NGAAWs) are a family of unitary area attack weapons which meet the DoD policy on cluster munitions. It consists of the BLU-134/B and BLU-136/B warheads with a cockpit-selectable height of burst sensor.

 BLU-136/B, NGAAW Increment II, is a 2,000lb area attack warhead which, augmented by the BLU-134/B, provides for significant improvement of lethality against personnel and materiel targets while meeting the DoD policy on cluster munitions.

 BLU-136/B unit cost for FY22 is 44,334 per bomb; FY23 is 44,186 per bomb, and for FY24 is 43,610 per bomb.
 BLU-136/B has other government costs which make up the Delta in the funding line.

 FY22 amount reflects a 15.589M reduction in the FY22 Appropriations Act.

 Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force															Date: March 2023				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13							P-1 Line Item Number / Title: 353020 / General Purpose Bombs							Aggregated Items Title: GENERAL PURPOSE BOMBS (ITEMS LESS THAN \$5 MILLION)					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Bomb Pipe Buy	A		-	-	-	-	-	6.000	-	-	12.500	-	-	0.000	-	-	-	-	-	0.000
BOMB FUZE PROTECTION ASSEMBLY (ED67)	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Energetics	A		-	-	-	-	-	0.900	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
China lake engineering support	A		-	-	-	-	-	1.520	-	-	0.000	-	-	1.000	-	-	-	-	-	1.000
MK84 FIN ASSEMBLY (F607)	A		-	-	-	-	-	0.000	-	-	1.000	-	-	1.000	-	-	-	-	-	1.000
FIN ASSY BSU-33B/ B (EE10)	A		-	-	-	-	-	0.000	-	-	1.500	-	-	1.500	-	-	-	-	-	1.500
IM	A		-	-	-	-	-	4.900	-	-	3.300	-	-	1.500	-	-	-	-	-	1.500
LWIP	A		-	-	-	-	-	3.100	-	-	3.000	-	-	1.900	-	-	-	-	-	1.900
WEAPS/IMEA	A		-	-	-	-	-	2.900	-	-	2.700	-	-	2.700	-	-	-	-	-	2.700
DOTC	A		-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
First Destination Transportation Costs	A		-	-	-	-	-	3.000	-	-	0.800	-	-	1.000	-	-	-	-	-	1.000
Support Cups	A		-	-	-	-	-	0.000	-	-	0.500	-	-	0.500	-	-	-	-	-	0.500
Nose Plugs	A		-	-	-	-	-	0.000	-	-	0.500	-	-	0.500	-	-	-	-	-	0.500
Lugs	A		-	-	-	-	-	-	-	-	1.000	-	-	1.500	-	-	-	-	-	1.500
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	3.023	-	-	1.500	-	-	2.500	-	-	-	-	-	2.500
Subtotal: Uncategorized			-	-	-	-	-	25.343	-	-	28.300	-	-	15.600	-	-	-	-	-	15.600
Total			-	-	-	-	-	25.343	-	-	28.300	-	-	15.600	-	-	-	-	-	15.600

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

Remarks:
Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 **P-1 Line Item Number / Title:** 353020 / General Purpose Bombs **Aggregated Items Title:** PRACTICE BOMBS

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
hardware																				
(E96) BDU-56D/B	A		-	-	-	-	-	-	-	-	8.642	-	-	22.000	-	-	-	-	-	22.000
(E756) BDU-50/B	A		-	-	-	-	-	-	-	-	34.500	-	-	37.718	-	-	-	-	-	37.718
(F262) MK-84 Inert Prac Bomb	A		-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
(E969) BDU-33	A		-	-	-	-	-	-	-	-	0.900	-	-	1.500	-	-	-	-	-	1.500
(F562) MK 4 MOD 3 Signal Cart	A		-	-	-	-	-	-	-	-	0.750	-	-	1.000	-	-	-	-	-	1.000
(F470) CXU-3A/B Signal Cart	A		-	-	-	-	-	-	-	-	1.010	-	-	1.000	-	-	-	-	-	1.000
FDT	A		-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: hardware			-	-	-	-	-	-	-	-	45.802	-	-	63.218	-	-	-	-	-	63.218
Total			-	-	-	-	-	-	-	-	45.802	-	-	63.218	-	-	-	-	-	63.218

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

Remarks:
 Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 353190 / Massive Ordnance Penetrator (MOP)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 527

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	15.500	19.743	14.074	-	14.074	8.752	0.000	0.000	0.000	-	58.069
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	15.500	19.743	14.074	-	14.074	8.752	0.000	0.000	0.000	-	58.069
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	15.500	19.743	14.074	-	14.074	8.752	0.000	0.000	0.000	-	58.069

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

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

Description:

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

Funding may be used for non-recurring engineering, integration, test, qualification, production readiness and operational readiness of engineering change proposals to resolve safety, reliability or other operational deficiencies, decrease weapon system cost, preserve future production capabilities and capacities, and meet Congressional, National Agency and Defense Department mandates.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. For example through studies, bridge buys, life of type buys, supplier/parts replacement, to include electronic components used commercially and in short supply, energetics, and qualification activities to preserve future production capabilities and capacities.

This requirement supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.

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

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

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

Line Item MDAP/MAIS Code: 527

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	Massive Ordnance Penetrator (MOP)		A		- / -	- / 15.500	- / 19.743	- / 14.074	- / -	- / 14.074
P-40	Total Gross/Weapon System Cost				- / -	- / 15.500	- / 19.743	- / 14.074	- / -	- / 14.074

*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:

FY24 funding request includes any additional Diminishing Manufacturing Sources (DMS) and additional MOP assets to include warheads, guidance kits, fuzes, and associated support equipment.

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Exhibit P-5, Cost Analysis: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353190 / Massive Ordnance Penetrator (MOP)	Item Number / Title [DODIC]: Massive Ordnance Penetrator (MOP)
--	--	--

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

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	15.500	19.743	14.074	-	14.074
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	15.500	19.743	14.074	-	14.074
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	15.500	19.743	14.074	-	14.074

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

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

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

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Massive Ordnance Penetrator (MOP) Cost																		
Recurring Cost																		
MOP Equipment	-	-	-	-	-	14.800	-	-	19.027	-	-	12.824	-	-	-	-	-	12.824
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	14.800	-	-	19.027	-	-	12.824	-	-	-	-	-	12.824
<i>Subtotal: Hardware - Massive Ordnance Penetrator (MOP) Cost</i>	-	-	-	-	-	14.800	-	-	19.027	-	-	12.824	-	-	-	-	-	12.824
Support - Massive Ordnance Penetrator (MOP) Cost Cost																		
PSC Other Government Costs	-	-	-	-	-	0.700	-	-	0.716	-	-	1.250	-	-	-	-	-	1.250
<i>Subtotal: Support - Massive Ordnance Penetrator (MOP) Cost Cost</i>	-	-	-	-	-	0.700	-	-	0.716	-	-	1.250	-	-	-	-	-	1.250
Gross/Weapon System Cost	-	-	-	-	-	15.500	-	-	19.743	-	-	14.074	-	-	-	-	-	14.074

Remarks:

Program Support Costs (PSC) Other Government Costs: Travel, Government Purchase Card (GPC), Program Support Personnel. FY2023 to FY2024 increase to program Central Support, Travel, and GPC.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 353620 / Joint Direct Attack Munition
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 503

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	344,437	-	4,200	1,772	-	1,772	1,375	5,600	1,583	4,080	-	363,047
Gross/Weapon System Cost (<i>\$ in Millions</i>)	8,505.805	48.584	251.434	132.364	-	132.364	125.564	360.157	137.030	272.397	0.000	9,833.335
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	8,505.805	48.584	251.434	132.364	-	132.364	125.564	360.157	137.030	272.397	0.000	9,833.335
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	8,505.805	48.584	251.434	132.364	-	132.364	125.564	360.157	137.030	272.397	0.000	9,833.335

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.025	-	0.060	0.075	-	0.075	0.091	0.064	0.087	0.067	-	0.027

Description:

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 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.

Under an Urgent Operational Need (UON), the Air Force is procuring Strategic Anti-Jam Beamforming Receiver Y-Code (SABR-Y) guidance kits which are enhanced GPS-denied environment guidance systems. Unit costs increased with SABR-Y GPS receivers starting in FY2019. Leveraging the SABR-Y follow-on requirement, the Air Force is developing M-Code (SABR-M) capable guidance kits to meet Section 913 of the National Defense Authorization Act for FY 2011 (Public Law 111-383) M-Code GPS requirements and is targeting FY2024 award to Lot 28 for production. The M-Code Phase 3 project is integrating the Anti-Jam Application Specific Integrated Circuit (AJ ASIC) based M-Code Enhanced Anti-Jam Receiver (EAJR) JDAM onto representative launch platform(s). This effort focuses on qualification and testing of production representative M-Code weapon system hardware and software along with planning for the transition to production.

Pursuant to section 2308 of Title 10, U.S. Code, this program will seek cost efficiencies where available through production lot negotiations. This program will continue procurement past FY2028 due to evolving warfighter requirements driven by ongoing combat expenditures.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. Through studies, bridge buys, life of type buys, supplier/parts replacement, to include electronic components used commercially and in short supply; and qualification activities to preserve future production capabilities and capacities.

Funding for this exhibit is contained in PE 0207583F.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 353620 / Joint Direct Attack Munition
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 503

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-5	Joint Direct Attack Munition	P-5a, P-21	A		344,437 / 8,505.805	- / 48.584	4,200 / 251.434	1,772 / 132.364	- / -	1,772 / 132.364
P-40	Total Gross/Weapon System Cost				344,437 / 8,505.805	- / 48.584	4,200 / 251.434	1,772 / 132.364	- / -	1,772 / 132.364

*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:
 FY2024 budget request will procure approximately 1,772 JDAM guidance kits.

This program procures JDAM guidance kits, laser sensors, airborne test equipment, and supporting activities to include software block upgrades, integration, and other technical services. The hardware purchase includes a mixture of JDAM guidance kits as well as precision laser guidance sensors, and airborne test equipment for flight test.

This procurement is critical to providing M-Code capable guidance kits which are enhanced GPS-denied environment guidance systems in support of an increased Inventory Objective.

Procurement quantities can change based on negotiated options/pricing curves and available funding, in accordance with Title 10, U.S. Code Section 2308 BUY-TO-BUDGET ACQUISITION.

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Exhibit P-5, Cost Analysis: PB 2024 Air Force **Date:** March 2023

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

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (Units in Each)	344,437	-	4,200	1,772	-	1,772
Gross/Weapon System Cost (\$ in Millions)	8,505.805	48.584	251.434	132.364	-	132.364
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	8,505.805	48.584	251.434	132.364	-	132.364
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	8,505.805	48.584	251.434	132.364	-	132.364

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	0.025	-	0.060	0.075	-	0.075

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

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - END ITEM Cost																		
Recurring Cost																		
JDAM TAIL KIT ⁽¹⁾	0.022	344,437	7,649.114	-	-	-	0.044	4,200	185.400	0.045	1,772	79.479	-	-	-	0.045	1,772	79.479
LASER SENSOR	0.012	36,030	427.318	0.031	1,180	36.954	0.025	1,100	27.661	0.023	970	22.000	-	-	-	0.023	970	22.000
<i>Subtotal: Recurring Cost</i>	-	-	8,076.432	-	-	36.954	-	-	213.061	-	-	101.479	-	-	-	-	-	101.479
<i>Subtotal: Hardware - END ITEM Cost</i>	-	-	8,076.432	-	-	36.954	-	-	213.061	-	-	101.479	-	-	-	-	-	101.479
Ancillary Equipment - TEST EQUIPMENT Cost																		
Recurring Cost																		
AIRBORNE TEST EQUIPMENT	-	-	106.456	-	-	0.000	-	-	8.792	-	-	9.468	-	-	-	-	-	9.468
<i>Subtotal: Recurring Cost</i>	-	-	106.456	-	-	0.000	-	-	8.792	-	-	9.468	-	-	-	-	-	9.468
<i>Subtotal: Ancillary Equipment - TEST EQUIPMENT Cost</i>	-	-	106.456	-	-	0.000	-	-	8.792	-	-	9.468	-	-	-	-	-	9.468
Support - END ITEM SUPPORT Cost																		
SUSTAINING ENGINEERING	-	-	258.014	-	-	11.344	-	-	25.422	-	-	15.765	-	-	-	-	-	15.765
PSC Other Government Costs	-	-	64.903	-	-	0.156	-	-	0.159	-	-	5.502	-	-	-	-	-	5.502
PSC Contractor Services	-	-	0.000	-	-	0.130	-	-	4.000	-	-	0.150	-	-	-	-	-	0.150
<i>Subtotal: Support - END ITEM SUPPORT Cost</i>	-	-	322.917	-	-	11.630	-	-	29.581	-	-	21.417	-	-	-	-	-	21.417

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Exhibit P-5, Cost Analysis: PB 2024 Air Force												Date: March 2023					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13						P-1 Line Item Number / Title: 353620 / Joint Direct Attack Munition						Item Number / Title [DODIC]: Joint Direct Attack Munition					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	0.025	344,437	8,505.805	-	-	48.584	0.060	4,200	251.434	0.075	1,772	132.364	-	-	-	0.075	1,772	132.364

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

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Exhibit P-5a, Procurement History and Planning: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353620 / Joint Direct Attack Munition	Item Number / Title [DODIC]: Joint Direct Attack Munition
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
JDAM TAIL KIT ^(†)		2020	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Mar 2020	Feb 2021	23,301	0.035	Y		Aug 2017
JDAM TAIL KIT ^(†)		2021	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Feb 2021	Feb 2022	7,100	0.039	Y		Aug 2017
JDAM TAIL KIT ^(†)		2023	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Feb 2023	Feb 2024	4,200	0.044	Y		Aug 2017
JDAM TAIL KIT ^(†)		2024	BOEING / ST CHARLES, MO	SS / FFP	AFLCMC Hill AFB	Feb 2024	Feb 2025	1,772	0.045	Y		Feb 2022

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353620 / Joint Direct Attack Munition	Item Number / Title [DODIC]: Joint Direct Attack Munition
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Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2020													Fiscal Year 2021													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
JDAM TAIL KIT																																	
Prior Years Deliveries: 314036																																	
1	2020	AF ⁽¹⁾	23.301	.000	23.301																								7.773				
1	2020	FMS ^(‡) (2)	1.533	.000	1.533																								.509				
1	2020	NAVY ^(‡) (3)	3.261	.000	3.261																								1.085				
1	2020	Total	28.095	.000	28.095																								9.367				
1	2021	AF	7.100	.000	7.100																								7.100				
1	2021	FMS ^(‡)	3.348	.000	3.348																								3.348				
1	2021	NAVY ^(‡)	2.982	.000	2.982																								2.982				
1	2021	Total	13.430	.000	13.430																								13.430				
1	2023	AF	4.200	.000	4.200																								4.200				
1	2023	FMS ^(‡)	1.646	.000	1.646																								1.646				
1	2023	NAVY ^(‡)	1.660	.000	1.660																								1.660				
1	2023	Total	7.506	.000	7.506																								7.506				
1	2024	AF	1.772	.000	1.772																								1.772				
1	2024	FMS ^(‡)	2.000	.000	2.000																								2.000				
1	2024	NAVY ^(‡)	1.600	.000	1.600																								1.600				
1	2024	Total	5.372	.000	5.372																								5.372				

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Exhibit P-21, Production Schedule: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353620 / Joint Direct Attack Munition	Item Number / Title [DODIC]: Joint Direct Attack Munition
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Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2022													Fiscal Year 2023												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
JDAM TAIL KIT																																
Prior Years Deliveries: 314036																																
1	2020	AF ⁽¹⁾	23.301	15.528	7.773	1.941	1.941	1.941	1.950																					.000		
1	2020	FMS ^(#) (2)	1.533	1.024	.509	.128	.127	.127	.127																					.000		
1	2020	NAVY ^(#) (3)	3.261	2.176	1.085	.272	.271	.271	.271																					.000		
1	2020	Total	28.095	18.728	9.367	2.341	2.339	2.339	2.348	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000			
1	2021	AF	7.100	.000	7.100	-	-	-	-	.592	.592	.592	.592	.592	.592	.592	.592	.592	.592	.592	.592	.592	.592	.592	.592	.592	.592	.592	.592	.000		
1	2021	FMS ^(#)	3.348	.000	3.348	-	-	-	-	.279	.279	.279	.279	.279	.279	.279	.279	.279	.279	.279	.279	.279	.279	.279	.279	.279	.279	.279	.279	.000		
1	2021	NAVY ^(#)	2.982	.000	2.982	-	-	-	-	.245	.246	.245	.246	.245	.246	.245	.246	.246	.246	.246	.246	.246	.246	.246	.246	.246	.246	.246	.246	.000		
1	2021	Total	13.430	.000	13.430	-	-	-	-	1.116	1.117	1.116	1.117	1.116	1.117	1.116	1.117	1.117	1.117	1.117	1.117	1.117	1.117	1.117	1.117	1.117	1.117	1.117	.000			
1	2023	AF	4.200	.000	4.200																									4.200		
1	2023	FMS ^(#)	1.646	.000	1.646																									1.646		
1	2023	NAVY ^(#)	1.660	.000	1.660																									1.660		
1	2023	Total	7.506	.000	7.506																									7.506		
1	2024	AF	1.772	.000	1.772																									1.772		
1	2024	FMS ^(#)	2.000	.000	2.000																									2.000		
1	2024	NAVY ^(#)	1.600	.000	1.600																									1.600		
1	2024	Total	5.372	.000	5.372																									5.372		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 **P-1 Line Item Number / Title:** 353620 / Joint Direct Attack Munition **Item Number / Title [DODIC]:** Joint Direct Attack Munition

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2024													Fiscal Year 2025													BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024													Calendar Year 2025													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
JDAM TAIL KIT																																	
Prior Years Deliveries: 314036																																	
	1	2020	AF ⁽¹⁾	23.301	23.301	.000																							.000				
	1	2020	FMS ⁽²⁾	1.533	1.533	.000																							.000				
	1	2020	NAVY ⁽³⁾	3.261	3.261	.000																							.000				
	1	2020	Total	28.095	28.095	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2021	AF	7.100	7.100	.000																							.000				
	1	2021	FMS ⁽²⁾	3.348	3.348	.000																							.000				
	1	2021	NAVY ⁽²⁾	2.982	2.982	.000																							.000				
	1	2021	Total	13.430	13.430	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2023	AF	4.200	.000	4.200	-	-	-	-	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350	.350	.000				
	1	2023	FMS ⁽²⁾	1.646	.000	1.646	-	-	-	-	.137	.138	.137	.138	.137	.137	.137	.137	.137	.137	.137	.137	.137	.137	.137	.137	.137	.137	.000				
	1	2023	NAVY ⁽²⁾	1.660	.000	1.660	-	-	-	-	.138	.139	.138	.139	.138	.139	.138	.139	.138	.138	.138	.138	.138	.138	.138	.138	.138	.138	.000				
	1	2023	Total	7.506	.000	7.506	-	-	-	-	.625	.627	.625	.627	.625	.626	.625	.626	.625	.625	.625	.625	.625	.625	.625	.625	.625	.000					
	1	2024	AF	1.772	.000	1.772					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.592					
	1	2024	FMS ⁽²⁾	2.000	.000	2.000					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.668					
	1	2024	NAVY ⁽²⁾	1.600	.000	1.600					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.536					
	1	2024	Total	5.372	.000	5.372					-	-	-	-	-	-	-	-	-	-	1.796												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 **P-1 Line Item Number / Title:** 353620 / Joint Direct Attack Munition **Item Number / Title [DODIC]:** Joint Direct Attack Munition

Cost Elements <i>(Units in Thousands)</i>					Fiscal Year 2026													Fiscal Year 2027													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026													Calendar Year 2027													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
JDAM TAIL KIT																																	
Prior Years Deliveries: 314036																																	
	1	2020	AF ⁽¹⁾	23.301	23.301	.000																							.000				
	1	2020	FMS ^(#) (2)	1.533	1.533	.000																							.000				
	1	2020	NAVY ^(#) (3)	3.261	3.261	.000																							.000				
	1	2020	Total	28.095	28.095	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2021	AF	7.100	7.100	.000																							.000				
	1	2021	FMS ^(#)	3.348	3.348	.000																							.000				
	1	2021	NAVY ^(#)	2.982	2.982	.000																							.000				
	1	2021	Total	13.430	13.430	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2023	AF	4.200	4.200	.000																							.000				
	1	2023	FMS ^(#)	1.646	1.646	.000																							.000				
	1	2023	NAVY ^(#)	1.660	1.660	.000																							.000				
	1	2023	Total	7.506	7.506	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
	1	2024	AF	1.772	1.180	.592	.148	.148	.148	.148																			.000				
	1	2024	FMS ^(#)	2.000	1.332	.668	.167	.167	.167	.167																			.000				
	1	2024	NAVY ^(#)	1.600	1.064	.536	.134	.134	.134	.134																			.000				
	1	2024	Total	5.372	3.576	1.796	.449	.449	.449	.449	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.000				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2024 Air Force	Date: March 2023
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Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353620 / Joint Direct Attack Munition	Item Number / Title [DODIC]: Joint Direct Attack Munition
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2024	1-8-5 For 2024	MAX For 2024	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	BOEING - ST CHARLES, MO	1,500	18,900	25,000	0	0	0	0	0	0	5	12	17

Remarks:

Minimum Sustainment Rate (MSR) includes US Air Force, US Navy and Foreign Military Sales (FMS) procurement.

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

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

Footnotes:

- (1) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2021 loaded in the month of first delivery.
- (2) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2021 loaded in the month of first delivery.
- (3) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2021 loaded in the month of first delivery.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 354040 / B-61
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0101125F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 468

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	2.709	0.000	0.068	-	0.068	0.090	0.102	0.057	0.000	0.000	3.026
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	0.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	2.709	0.000	0.068	-	0.068	0.090	0.102	0.057	0.000	0.000	3.026
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	0.000
Total Obligation Authority (<i>\$ in Millions</i>)	-	2.709	0.000	0.068	-	0.068	0.090	0.102	0.057	0.000	0.000	3.026

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

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

Description:

354040 B61 concluded funding in FY22. FY24-27 activities moving to new WSC 354050 (B61-12 Trainers).

Y24-27 funds programmed for B61-12 Trainers (WSC 354050) were entered into the B61 program. This will be corrected in future updates to the budget.

Background:

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

B61-12 Life Extension Program (LEP): The B61-12 LEP will integrate DOE efforts to extend the service life if the warhead with DoD efforts to develop a guided Tail Kit Assembly (TKA) required to maintain current B61 mission characteristics. Programmatic integration of the Air Force-led, joint DoD-DOE program is accomplished through the B61 LEP Project Officers Group (POG) and its subgroups. In accordance with Air Force Materiel Command mission assignment memo (dated 17 Feb 11) and National Nuclear Security Administration (NNSA)-Air Force Nuclear Weapons Center (AFNWC) Memorandum of Understanding (MOU, dated 28 Jun 12), the USAF is responsible for development, acquisition and delivery of a guided TKA and for All Up Round (AUR) technical integration, system qualification and fielding of the B61-12 variant on multiple platforms. The production effort for the B61 TKA includes the production and delivery of TKAs, accessories, spares, ancillary equipment, Code Management System equipment, TKA and AUR trainers, lot acceptance test assets, and support. The B61 Developmental Test program is complete. Milestone C approved October 2018; the Milestone Decision Authority (MDA) approved proceeding into LRIP/Lot 1, as well as Lot 2 Advanced Procurement in support of Full Rate Production. Initial Operational Test and Evaluation activities were completed in 1QFY20; the DOT&E Beyond Low Rate Initial Production final report was published in September 2020. The Full Rate Production decision was approved by the MDA on 19 Oct 20, which included an additional 60 units to fulfill the 90/10/2 surveillance requirements.

The program also plans to use some funds to evaluate Diminishing Manufacturing Sources (DMS) material shortages, obsolescence issues, and reliability improvement, including flight testing.

Funding for this exhibit contained in PE 0101125F.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs **P-1 Line Item Number / Title:** 354040 / B-61

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

Line Item MDAP/MAIS Code: 468

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B-61		B		- / -	- / 2.709	- / 0.000	- / 0.068	- / -	- / 0.068
P-40	Total Gross/Weapon System Cost				- / -	- / 2.709	- / 0.000	- / 0.068	- / -	- / 0.068

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

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

Justification:
 The B61-12 LEP TKA program is in Full Rate Production and executing contracts for build and delivery of two production lots.

 No FY24 funding requested.

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Exhibit P-5, Cost Analysis: PB 2024 Air Force		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 354040 / B-61	Item Number / Title [DODIC]: B-61

ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (<i>Units in Each</i>)		-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)		-	2.709	0.000	0.068	-	0.068
Less PY Advance Procurement (<i>\$ in Millions</i>)		-	-	0.000	0.000	-	0.000
Net Procurement (P-1) (<i>\$ in Millions</i>)		-	2.709	0.000	0.068	-	0.068
Plus CY Advance Procurement (<i>\$ in Millions</i>)		-	-	0.000	0.000	-	0.000
Total Obligation Authority (<i>\$ in Millions</i>)		-	2.709	0.000	0.068	-	0.068
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (<i>\$ in Millions</i>)		-	0.000	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)		-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - B-21 Cost																		
Recurring Cost																		
TKA Trainers	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - B-21 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
Hardware - B61 Cost																		
Recurring Cost																		
Hardware End Item (TKA)	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
TKA Trainers	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - B61 Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Support - B61 Cost																		
PMA	-	-	-	-	-	2.644	-	-	-	-	-	0.068	-	-	-	-	-	0.068
NWC Mission Support	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
System T&E	-	-	-	-	-	0.065	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - B61 Cost</i>	-	-	-	-	-	2.709	-	-	-	-	-	0.068	-	-	-	-	-	0.068
Gross/Weapon System Cost	-	-	-	-	-	2.709	-	-	0.000	-	-	0.068	-	-	-	-	-	0.068

Remarks:
FY24-27 funds programmed for B61-12 Trainers (WSC 354050) were entered into the B61 program. This will be corrected in future updates to the budget.

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Exhibit P-5, Cost Analysis: PB 2024 Air Force		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 354040 / B-61	Item Number / Title [DODIC]: B-61
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 354050 / B61-12 Trainer
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0101125F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	10.100	-	10.100	11.553	11.699	5.797	0.000	-	39.149
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	10.100	-	10.100	11.553	11.699	5.797	0.000	-	39.149
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	10.100	-	10.100	11.553	11.699	5.797	0.000	-	39.149

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	2.138	-	2.138	-	-	-	-	-	2.138
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

B61-12 Trainers, WSC 354050, is a new start. Previous B61 efforts were accomplished in WSC 354040.

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

Background:

B61-12 Life Extension Program (LEP): The B61-12 LEP will integrate DOE efforts to extend the service life of the warhead with DoD efforts to develop a guided Tail Kit Assembly (TKA) required to maintain current B61 mission characteristics. Programmatic integration of the Air Force-led, joint DoD-DOE program is accomplished through the B61 LEP Project Officers Group (POG) and its subgroups. In accordance with Air Force Materiel Command mission assignment memo (dated 17 Feb 11) and National Nuclear Security Administration (NNSA)-Air Force Nuclear Weapons Center (AFNWC) Memorandum of Understanding (MOU, dated 28 Jun 12), the USAF is responsible for development, acquisition and delivery of a guided TKA and for All Up Round (AUR) technical integration, system qualification and fielding of the B61-12 variant on multiple platforms. The production effort for the B61 TKA includes the production and delivery of TKAs, accessories, spares, ancillary equipment, Code Management System equipment, TKA and AUR trainers, lot acceptance test assets, and support. The B61 Developmental Test program is complete. Milestone C approved October 2018; the Milestone Decision Authority (MDA) approved proceeding into LRIP/Lot 1, as well as Lot 2 Advanced Procurement in support of Full Rate Production. Initial Operational Test and Evaluation activities were completed in 1QFY20; the DOT&E Beyond Low Rate Initial Production final report was published in September 2020. The Full Rate Production decision was approved by the MDA on 19 Oct 20, which included an additional 60 units to fulfill the 90/10/2 surveillance requirements.

Funding for this exhibit contained in PE 0101125F.

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

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs **P-1 Line Item Number / Title:** 354050 / B61-12 Trainer

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	B61-12 Trainer		B		- / -	- / 0.000	- / 0.000	- / 10.100	- / -	- / 10.100
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	- / 0.000	- / 10.100	- / -	- / 10.100

*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:

This program is a new start.

Requirement:

The B61-12 Trainers program will procure additional B61-12 Type 3C trainers, B61-12 Type 3E ground handling/aircraft loading trainers, and spares for the operations and maintenance required by emergent AFGSC requirements. The procurement includes trainers, spares, associated special design test/handling equipment and operations/maintenance life-cycle sustainment spare parts and special design equipment. These training weapons, ancillary test/handling equipment, and spare parts are required to ready, support, train, certify, and maintain proficiency in support of nuclear surety operations performed primarily by aircraft and nuclear weapons maintenance personnel. Also, the program will evaluate Diminishing Manufacturing Sources (DMS) material shortages, obsolescence issues, and reliability improvement, including flight testing. The program will allow the USAF to support the custody, operations, and maintenance of the joint DOE and USAF B61-12.

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Exhibit P-5, Cost Analysis: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 354050 / B61-12 Trainer	Item Number / Title [DODIC]: B61-12 Trainer
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	0.000	10.100	-	10.100
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	0.000	10.100	-	10.100
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.000	0.000	10.100	-	10.100

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

Initial Spares (\$ in Millions)	-	-	-	2.138	-	2.138
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - B61 All Up Round trainer Cost																		
Recurring Cost																		
Tail Kit Assembly (TKA)	-	-	-	-	-	-	-	-	-	1.067	3	3.202	-	-	-	1.067	3	3.202
Bomb assembly (NNSA)	-	-	-	-	-	-	-	-	-	-	-	3.570	-	-	-	-	-	3.570
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	6.772	-	-	-	-	-	6.772
<i>Subtotal: Hardware - B61 All Up Round trainer Cost</i>	-	-	-	-	-	-	-	-	-	-	-	6.772	-	-	-	-	-	6.772
Ancillary Equipment - Equipment Cost																		
Recurring Cost																		
Containers	-	-	-	-	-	0.000	-	-	0.000	-	-	0.120	-	-	-	-	-	0.120
Initial Spares	-	-	-	-	-	0.000	-	-	0.000	-	-	2.138	-	-	-	-	-	2.138
Handling Gear	-	-	-	-	-	-	-	-	-	-	-	1.070	-	-	-	-	-	1.070
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	3.328	-	-	-	-	-	3.328
<i>Subtotal: Ancillary Equipment - Equipment Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	3.328	-	-	-	-	-	3.328
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	0.000	-	-	10.100	-	-	-	-	-	10.100

Remarks:

Both Bomb Assembly (BA) and TKA components of the AUR trainers need a lead time, typically two years in order to build components. Thus, parts for the BA and TKA need to be purchased and manufactured before the BA or TKA can be assembled into a complete unit. Concurrent procurement of spares, ancillary equipment and TKA shipping containers is required to ensure training and fielding requirements are met.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	59.010	48.473	51.487	-	51.487	54.215	56.090	54.822	56.005	-	380.102
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	59.010	48.473	51.487	-	51.487	54.215	56.090	54.822	56.005	-	380.102
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	59.010	48.473	51.487	-	51.487	54.215	56.090	54.822	56.005	-	380.102

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

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

Description:

- Cartridge Actuated Devices/Propellant Actuated Devices (CAD/PAD) are energetic life-limited critical safety items used in emergency egress, fire suppression, aerial refueling, data destruction, aircrew flight equipment and survival equipment. CAD/PAD items are used in all mission areas, i.e. combat, training, force protection, search & rescue, and humanitarian relief. These energetic devices have a defined shelf/service life and are replaced based on time-change during scheduled aircraft maintenance. The CAD/PAD category supports 1,100+ distinct National Stock Numbers used on the following airframes: A-10, AC-130, B-1, B-2, B-52, C-5, C-17, C-130, CV-22, E-3, E-8, EC-130, F-15, F-16, F-22, HC-130, HH-60, KC-10, KC-46, KC-135, LC-130, MC-130, NC-135, OC-135, QF-16, RC-135, T-1, T-6, T-38, TU-2, U-2, UH-1, WC-130, and WC-135.
- Funds may be used to address production Diminishing Manufacturing Sources (DMS)/Material Shortages/Obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement, to include electronic components used commercially and in short supply, and qualification activities to preserve future production capabilities and capacities.
- CAD/PAD items are purchased for AF by AFLCMC/EBHJ, CAD/PAD Joint Program Office at Hill AFB, UT.
- Funding for this exhibit contained in PE 0708070F.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Cad/Pad				- / -	- / 59.010	- / 48.473	- / 51.487	- / -	- / 51.487
P-40	Total Gross/Weapon System Cost				- / -	- / 59.010	- / 48.473	- / 51.487	- / -	- / 51.487

*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:
 FY2024 funds will be used 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. In accordance with Technical Order (T.O.) 00-20-1, the aircraft becomes grounded until reliable assets are obtained and installed.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BOMBER AIRCRAFT	A		-	-	-	-	-	7.515	-	-	5.679	-	-	5.700	-	-	-	-	-	5.700
CARGO AIRCRAFT	A		-	-	-	-	-	11.900	-	-	3.184	-	-	3.200	-	-	-	-	-	3.200
FIGHTER AIRCRAFT	A		-	-	-	-	-	4.203	-	-	4.665	-	-	4.754	-	-	-	-	-	4.754
TRAINING AIRCRAFT	A		-	-	-	-	-	12.893	-	-	15.564	-	-	18.096	-	-	-	-	-	18.096
COMMON EGRESS ITEMS	A		-	-	-	-	-	16.422	-	-	9.670	-	-	7.780	-	-	-	-	-	7.780
COMMON LIFE SUPPORT ITEMS	A		-	-	-	-	-	3.905	-	-	4.353	-	-	4.400	-	-	-	-	-	4.400
COMMON MISC ITEMS	A		-	-	-	-	-	2.172	-	-	5.358	-	-	7.557	-	-	-	-	-	7.557
Subtotal: Uncategorized			-	-	-	-	-	59.010	-	-	48.473	-	-	51.487	-	-	-	-	-	51.487
Total			-	-	-	-	-	59.010	-	-	48.473	-	-	51.487	-	-	-	-	-	51.487

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 2024 Air Force **Date:** March 2023

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	5.151	6.343	6.707	-	6.707	7.063	7.306	7.141	7.296	-	47.007
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	5.151	6.343	6.707	-	6.707	7.063	7.306	7.141	7.296	-	47.007
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	5.151	6.343	6.707	-	6.707	7.063	7.306	7.141	7.296	-	47.007

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

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

Description:

The FY 2024 funding request was reduced by 0.224 million to account for the availability of prior year execution balances.

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

Funds may be used to address production Diminishing Manufacturing Sources (DMS)/Material Shortages/Obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement, to include electronic components used commercially and in short supply, and qualification activities to preserve future production capabilities and capacities.

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

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

Funding for this exhibit is contained in PE 0204424F.

"This program leverages Digital acquisition tenets of open, agile, and digital. Invests in analytical, information management, data management, digital environments, networks, facilities, and security infrastructure upgrades directly supporting development and sustainment of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-40a	Explosive Ordnance Disposal (EOD)				- / -	- / 5.151	- / 6.343	- / 6.707	- / -	- / 6.707
P-40	Total Gross/Weapon System Cost				- / -	- / 5.151	- / 6.343	- / 6.707	- / -	- / 6.707

*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:

This program, Category Uncategorized Item (AA63) 12 GAUGE M275 AVON CARTRIDGE, is a new start.
 This program, Category Uncategorized Item (AA62) 12 GAUGE M274 ULTRA CARTRIDGE, is a new start.
 This program, Category Uncategorized Item (M476) CONTAINER SHAPED CHR9 MK3 MOD 0, is a new start.
 This program, Category Uncategorized Item (M130) - CAP BLASTING ELECTRIC M6, is a new start.
 This program, Category Uncategorized Item (M456) - CORD ASBLY DETONATING, is a new start.
 This program, Category Uncategorized Item (MN08) - IGNITER TIME BLASTING, is a new start.

FY2024 funds purchase Explosive Ordnance Disposal (EOD), Demolition Material, Civil Engineering Tools and Equipment including all explosives, explosive tools and related equipment to render unexploded ordnance safe. Assets provide support for Counter Improvised Explosive Devices (IED) operations, Special Operations teams, formal schools, and Military Working Dog training. EOD/Demolition Munitions items are used in deployment packages, base response assets, and range clearance resources in support of peacetime and contingency operations.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15 **P-1 Line Item Number / Title:** 355450 / Explosive Ordnance Disposal (EOD) **Aggregated Items Title:** Explosive Ordnance Disposal (EOD)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(AA63) 12 GAUGE M275 AVON CARTRIDGE	A		-	-	-	-	-	-	-	-	0.000	1,457	0.008	-	-	-	0.000	1,457	0.008	
(AA62) 12 GAUGE M274 ULTRA CARTRIDGE	A		-	-	-	-	-	-	-	-	0.000	8,124	0.042	-	-	-	0.000	8,124	0.042	
(M023) - CHARGE, DEMOLITION C4-M112	A		-	-	-	0.000	22,442	1.000	0.000	19,996	0.891	0.000	21,654	1.000	-	-	-	0.000	21,654	1.000
(M476) CONTAINER SHAPED CHR9 MK3 MOD 0	A		-	-	-	-	-	-	-	-	0.000	87	0.010	-	-	-	0.000	87	0.010	
(M031) CHG DEMO TNT 1/2LB	A		-	-	-	0.000	50,637	0.693	-	-	-	-	-	-	-	-	-	-	-	
(M097) INERT, NON-ELECTRIC CAP	A		-	-	-	-	-	-	0.000	10,000	0.100	0.000	3,212	0.100	-	-	-	0.000	3,212	0.100
(M130) - CAP BLASTING ELECTRIC M6	A		-	-	-	-	-	0.000	-	-	0.000	0.000	34,682	1.500	-	-	-	0.000	34,682	1.500
(DWEC) CTG, MK 277 ENHANCED BLANK	A		-	-	-	0.000	2,786	0.010	-	-	0.000	0.000	5,376	0.020	-	-	-	0.000	5,376	0.020
(M131) - CAP, BLASTING NON-ELECTRIC-M7	A		-	-	-	-	-	0.000	0.000	42,148	0.891	0.000	83,696	1.961	-	-	-	0.000	83,696	1.961
(M456) - CORD ASBLY DETONATING	A		-	-	-	-	-	0.000	-	-	0.000	0.000	243,902	0.100	-	-	-	0.000	243,902	0.100
(M591) - DYNAMITE MILITARY M1 1LB BLOCK	A		-	-	-	-	-	-	0.000	750	0.015	-	-	-	-	-	-	-	-	
(M980) - DETA SHEET	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(M993) CHARGE, DEMO, C1.5 DETA SHEET .062	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	
(ML47) - B CAP W/30 FT SHOCK TUBE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(MM24) DEMO ECT, MK 142, 300GPF	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(MM30) CHARGE, 20 GRAM MK 140 MOD 0	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(MM51) DEMO ECT, MK 143, 600GPF	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15 **P-1 Line Item Number / Title:** 355450 / Explosive Ordnance Disposal (EOD) **Aggregated Items Title:** Explosive Ordnance Disposal (EOD)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
(MM52) DEMO ECT, MK144, 1200GPF	A		-	-	-	-	-	-	0.000	2,186	0.200	0.000	3,724	0.200	-	-	-	0.000	3,724	0.200
(MM48) CHG DEMO LIN SHAPED 600 GR/ FT	A		-	-	-	-	-	-	0.000	3,080	0.308	-	-	-	-	-	-	-	-	-
(MM38) CHG, DEMO, LIN SHAPED 225 GR/ FT	A		-	-	-	-	-	-	0.000	3,158	0.300	-	-	-	-	-	-	-	-	-
(MM53) - DEMO ECT, MK145, 2400GPF	A		-	-	-	0.000	1,432	0.100	0.000	1,432	0.100	-	-	-	-	-	-	-	-	-
(MM54) - EXPLOSIVE CUTTING TAPE	A		-	-	-	-	-	0.000	0.000	5,390	0.500	0.000	6,084	0.585	-	-	-	0.000	6,084	0.585
(M421) CHG DEMO SHPD M3A2 COMP B	A		-	-	-	0.001	247	0.200	0.001	247	0.200	-	-	-	-	-	-	-	-	-
(MM56) DETONATOR, PERCUSSION 175MS DELAY	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(MN07) - N/E 70FT DELAY SHOCK TUBE	A		-	-	-	-	-	-	0.000	4,167	0.050	-	-	-	-	-	-	-	-	-
(MN06) M14 SET UP, N/E CAP WITH TIME FUZE	A		-	-	-	0.000	25,489	0.300	-	-	0.000	0.000	24,752	0.300	-	-	-	0.000	24,752	0.300
(MN08) - IGNITER TIME BLASTING	A		-	-	-	-	-	-	-	-	-	0.000	21,622	0.336	-	-	-	0.000	21,622	0.336
(MN23) - DEMO ECT, MK152, 900GPF (LHFLSC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(MN82) - SEMTEX A	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
(MN85) - DYNAMITE, 75% AMMON NITRATE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(MN86) CAP, BLAST NON-ELEC W/200 FT MINI-TUBE M19	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
(MN88) - SHOCK TUBE W/BLASTING CAP 500	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(MN90) - M-13 1,000 FT SHOCK TUBE W/ CAP M23	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(MP29) DETONATOR, NONELEC, DUEL 40 FT MK 164 MOD 0	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15 **P-1 Line Item Number / Title:** 355450 / Explosive Ordnance Disposal (EOD) **Aggregated Items Title:** Explosive Ordnance Disposal (EOD)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
(SS01) - CTG, 50 CAL ELEC BLANK MK209 MOD 1	A		-	-	-	0.000	7,965	0.970	0.000	3,251	0.600	-	-	-	-	-	-	-	-	
(M039) CHG DEMO 40LB CRATERING W/ WELL	A		-	-	-	-	-	0.000	0.000	1,097	0.200	-	-	-	-	-	-	-	-	
(M670) FUZE, BLASTING TIME	A		-	-	-	0.000	211,290	0.131	0.000	7,419	0.460	0.000	29,289	0.280	-	-	-	0.000	29,289	0.280
(M420) CHG DEMO SHPD M2A4 15LB COMP B	A		-	-	-	0.002	726	1.394	0.002	556	1.068	-	-	-	-	-	-	-	-	
(M986) CHB, DEMOLITION C7 DETA SHEET 1.333	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	
(M985) Charge, Demolition, C7 Deta Sheet .291	A		-	-	-	-	-	-	0.000	2,000	0.200	-	-	-	-	-	-	-	-	
(YY34) - SHOCK TUBE	A		-	-	-	0.000	704	0.150	0.000	935	0.200	0.000	1,111,111	0.100	-	-	-	0.000	1,111,111	0.100
(M456) CORD ASSEMBLY, DETONATING	A		-	-	-	0.000	250,000	0.100	-	-	0.000	-	-	-	-	-	-	-	-	
(M482) CONTNR SHAP CHRGR, MK 7 MOD 6	A		-	-	-	0.000	719	0.030	-	-	0.000	-	-	-	-	-	-	-	-	
(ML05) CUTTER, HE MK 24 MOD 0	A		-	-	-	0.000	272	0.050	-	-	0.000	0.000	865	0.165	-	-	-	0.000	865	0.165
(ML03) FIRING DEVICE DEMO M142	A		-	-	-	-	-	-	0.000	950	0.020	-	-	-	-	-	-	-	-	
(M981) CHARGE, DEMOLITION	A		-	-	-	0.000	898	0.020	-	-	0.000	-	-	-	-	-	-	-	-	
PMA	A		-	-	-	-	-	0.003	-	-	0.040	-	-	-	-	-	-	-	-	
Subtotal: Uncategorized			-	-	-	-	-	5.151	-	-	6.343	-	-	6.707	-	-	-	-	-	6.707
Total			-	-	-	-	-	5.151	-	-	6.343	-	-	6.707	-	-	-	-	-	6.707

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 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items **P-1 Line Item Number / Title:**
355900 / Spares And Repair Parts

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.535	0.573	0.585	-	0.585	0.616	0.636	0.623	0.636	-	4.204
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.535	0.573	0.585	-	0.585	0.616	0.636	0.623	0.636	-	4.204
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.535	0.573	0.585	-	0.585	0.616	0.636	0.623	0.636	-	4.204

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

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

Description:

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

Provide Area Attack telemetry kit Weapon System Evaluation Program (WSEP) analysis for Wind Corrected Munitions Dispenser (WCMD). Contractor will perform engineering study, installation, delivery and testing for WCMD weapons with telemetry kits.

Funds may be used to address production Diminishing Manufacturing Sources (DMS)/Material Shortages/Obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement, to include electronic components used commercially and in short supply, and qualification activities to preserve future production capabilities and capacities.

Funding for this exhibit contained in PE 0208030F.

Justification:

The FY2024 request funds spares and repair parts for Procurement of Ammunition, Air Force (PAAF) items. Initial spares consist of repairable components, assemblies and sub-assemblies, 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 sub-assemblies required for follow on sustainment of end items. Munitions replacement spare levels are based on item-specific failure /demand driven computations. Examples of spares include Flight Test Telemetry packages, telemetry kits, batteries, fuzes, cables, electronic components to support and maintain fielded end items, and test support equipment. Initial or Replenishment spares and repair parts are necessary for the following Air Force (PAAF) P-1 end items: Rockets, Cartridges, Practice Bombs, General Purpose Bombs, Cartridge Actuated Devices /Propellant Actuated Devices (CAD/PAD), Explosive Ordnance Disposal, Flares, and Fuzes.

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

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.292	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	0.292
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.292	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	0.292
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.292	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	0.292

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

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

Description:

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

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.

Funds may be used to address production Diminishing Manufacturing Sources/Material Shortages/Obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement, to include electronic components used commercially and in short supply, and qualification activities to preserve future production capabilities and capacities.

Funding for this exhibit contained in PE 0208030F.

Justification:

No FY24 funding requested.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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:** 355980 / First Destination Transportation

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	3.025	2.299	-	2.299	2.889	2.959	2.863	2.925	-	16.960
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	3.025	2.299	-	2.299	2.889	2.959	2.863	2.925	-	16.960
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	3.025	2.299	-	2.299	2.889	2.959	2.863	2.925	-	16.960

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

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

Description:

Transportation funds are required to support the distribution of USAF ammunition end items and components (Interim Transportation). Distribution originates from and to CONUS and OCONUS manufacturing plants/contractors, and/or assembly points e.g. Army Ammunition Plants (AAPs), Arsenalns; Defense Contract Management Centers to include Off Shore Procurement Contractors shipping under F.O.B. Origin terms. Requirements are either destined for CONUS depots for acceptance into the Air Force Supply System, to CONUS Customers, to CONUS Arsenalns, or to ports of embarkation in support of Call Forward, i.e., Training, War Reserve Materials (WRM) or Overseas Contingency Operations (OCO).

Funding for this exhibit is contained in PE 0208030F. The Air Force previously requested First Destination Transportation costs in WSC 353020/General Purpose Bombs.

Justification:

The FY2024 request supports centrally funded distribution of Air Force ammunition end items and components from the point of manufacture to initial receipt into the Air Force supply system.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

P-1 Line Item Number / Title:
355990 / Items Less Than \$5,000,000

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	9.164	5.014	5.115	-	5.115	5.388	5.575	5.445	5.563	-	41.264
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	9.164	5.014	5.115	-	5.115	5.388	5.575	5.445	5.563	-	41.264
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	9.164	5.014	5.115	-	5.115	5.388	5.575	5.445	5.563	-	41.264

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

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

Description:

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

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

All items have an annual procurement value of less than 5 million dollars 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 PE 0207580F and in PE 0207599F.

"This program leverages Digital acquisition tenets of open, agile, and digital. Invests in analytical, information management, data management, digital environments, networks, facilities, and security infrastructure upgrades directly supporting development and sustainment of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 15: Other Items **P-1 Line Item Number / Title:** 355990 / Items Less Than \$5,000,000

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Items Less Than \$5,000,000				- / -	- / 9.164	- / 5.014	- / 5.115	- / -	- / 5.115
P-40	Total Gross/Weapon System Cost				- / -	- / 9.164	- / 5.014	- / 5.115	- / -	- / 5.115

*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:

This program, Category Uncategorized Item HB26 -- M72A8 LAW Fire From Enclosure (FFE) and NVD Mount, is a new start.
 This program, Category Uncategorized Item (CA30) Cartridge 84mm M136A1 AT4CS RS, is a new start.
 This program, Category Uncategorized Item (GG44) Fuze, Hand Grenade Practice MK 1 Mod 0, is a new start.

FY2024 funding purchases miscellaneous munitions such as hand grenades, grenades with colored smoke for signaling aircrews and air-rescue, and ground-burst simulators primarily used for air-base and ground support missions.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15 **P-1 Line Item Number / Title:** 355990 / Items Less Than \$5,000,000 **Aggregated Items Title:** Items Less Than \$5,000,000

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
IMEA	A		-	-	-	-	-	4.475	-	-	0.000	-	-	-	-	-	-	-	-	
(J007) Claymore	A		-	-	-	0.001	4,471	4.002	-	-	0.000	0.017	18	0.300	-	-	-	0.017	18	0.300
HB26 -- M72A8 LAW Fire From Enclosure (FFE) and NVD Mount	A		-	-	-	-	-	-	-	-	-	0.016	144	2.269	-	-	-	0.016	144	2.269
(YW33) Smokey Sams	A		-	-	-	-	-	-	-	-	2.233	-	-	-	-	-	-	-	-	
(CA30) Cartridge 84mm M136A1 AT4CS RS	A		-	-	-	-	-	-	-	-	-	0.003	107	0.300	-	-	-	0.003	107	0.300
(G870) FZE HAND GRN PRACTICE	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	
(G878) FUZE, GRENADE HAND, PRAC	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	
(G881) GRN, HAND PRAC M228	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	
(G940) GRENADE, SMOKE, GREEN M18	A		-	-	-	-	-	0.000	-	-	0.250	0.000	2,137	0.250	-	-	-	0.000	2,137	0.250
(G945) GRENADE, SMOKE, YELLOW	A		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	
(G950) GRENADE, SMOKE, RED	A		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	
(G955) GRENADE, SMOKE, VIOLET M18	A		-	-	-	-	-	0.000	-	-	0.500	0.000	6,711	0.500	-	-	-	0.000	6,711	0.500
(GG04) GRENADE, NON-LETHAL MODEL 9590	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	
(GG44) Fuze, Hand Grenade Practice MK 1 Mod 0	A		-	-	-	-	-	-	-	-	-	0.000	5,293	0.150	-	-	-	0.000	5,293	0.150
(G982) GRENADE, HAND, SMOKE, M83	A		-	-	-	-	-	0.000	-	-	0.250	0.000	3,169	0.250	-	-	-	0.000	3,169	0.250
(GG09) GRENADE, HAND NON-LETHAL	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	
(KM02) PEPPER SPRAY, POCKET	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	
(L594) SIMULATOR, GROUND BURST M115A2	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	
(L601) SIMULATOR, HAND GRENADE M116A1	A		-	-	-	-	-	-	-	-	0.370	0.000	15,152	0.370	-	-	-	0.000	15,152	0.370

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15 **P-1 Line Item Number / Title:** 355990 / Items Less Than \$5,000,000 **Aggregated Items Title:** Items Less Than \$5,000,000

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
SIMULATOR BOOBY TRAP M117	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
(GG36) GRENADE, MK20 FLASH NONLETHAL	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
(GG44) Flash Bang Grenade Fuze	A		-	-	-	-	-	-	-	-	0.700	-	-	-	-	-	-	-	-	-
(GG45) Flash Bang Grenade Body	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(LA51) SIMULATOR, SMALL ARMS FIRE	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
(LA52) SIMULATOR, SMALL ARMS FIRE	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
NUCLEAR TRAINERS	A		-	-	-	0.000	687,000	0.687	-	-	0.711	0.726	1	0.726	-	-	-	0.726	1	0.726
ALE 50	A		-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	9.164	-	-	5.014	-	-	5.115	-	-	-	-	-	5.115
Total			-	-	-	-	-	9.164	-	-	5.014	-	-	5.115	-	-	-	-	-	5.115

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 2024 Air Force **Date:** March 2023

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	85.934	120.548	79.786	-	79.786	99.582	102.418	99.571	86.255	-	674.094
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	85.934	120.548	79.786	-	79.786	99.582	102.418	99.571	86.255	-	674.094
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	85.934	120.548	79.786	-	79.786	99.582	102.418	99.571	86.255	-	674.094

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

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

Description:

- FY2022 funding request included 9.215M requested for Over-The-Horizon and/or Enduring Requirements.

NOTE: In FY 2023, Impulse Cartridges efforts were transferred from WSC 352010 Cartridges to WSC 356010, Flares, in order to better align with their purpose/use.

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

EXPENDABLE COUNTERMEASURES:

- (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. The M206 is being replaced by the MJU-61 in FY24.
- (L461) MJU-10 flare, which has been used primarily by the F-15 aircraft against heat seeking missiles, was partially replaced in FY18 by the MJU-53/B and will be completely replaced in FY20. The MJU-53/B is procured by the USAF.
- (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. Currently there is no planned procurement through the FYDP for the MU-23.
- (L463) MJU-7 IR Flare is an infrared countermeasures flare applicable to the A-10, F-15, F-16, F-22 and other aircraft. It creates an infrared signature and acts as a decoy against heat seeking missiles. Will be replaced by MJU-53 in 2020. The Air Force transitioned in FY18 to MJU-53 for wartime and other operational uses; MJU-7 is currently used only for training. This item is procured through the Single Manager for Conventional Ammunition (SMCA)/Army.
- (L225) Red/Red star M37A2 Signal.
- (LA21) MJU-53/B 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 aircraft. This item is procured through USAF. The MJU-53 will be replaced by the MJU-75 in FY24.
- (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 C-5 aircraft which require a 1 inch by 2 inch by 8 inch flare size to accommodate desired cocktail flare mixes. MJU-62 is being evaluated for use on other types of aircraft such as F-16, A-10 and HH-60. This item is procured through USAF.
- (LA60) MK-124 is a hand-held devise carried by personnel in life vests, flight suit pockets, or life raft survival kits used to identify the location of personnel during rescue and recovery missions. It consists of an aluminum case approximately 5.375 inches long, 1.625 inches in diameter and 8 oz. in weight with a protective rubber cap on each end.
- (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 aircraft as well as HH-53 and HH-60 helicopters

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 16: Flares		P-1 Line Item Number / Title: 356010 / Expendable Countermeasures
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>and is 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. This item is procured through the Navy PMA-272.</p> <p>-(LA66) MJU-61 is an infrared countermeasure flare used by F-35 aircraft against heat seeking missiles. The MJU-61 will replace the M206 in FY24 and will be used on multiple aircraft. This item is procured through the Navy PMA-272.</p> <p>-(LA67) MJU-71 IR Flare is a magnesium based thrusted flare used in a cocktail mix of flares on aircraft to improve the effectiveness of the countermeasures against heat-seeking missile threats. The 1x1x8 inch size provides better protection of the aircraft and flight crew. Other versions of thrusted flares are larger and use more space in the flare dispensers, severely limiting the number of ejection events. Initially approved for use on the C-130, A-10 and F-16 aircraft with on-going tests for use on other platforms. This item is procured through the Navy. MJU-71 will be replaced by the MJU-76.</p> <p>-(LA68) MJU-68 Flare is a magnesium based countermeasure and was developed specifically for and only used on the F-35/JSF aircraft to provide protection from advanced infrared threat missiles. This item is used for combat only. This item is procured through Navy PMA-272.</p> <p>-(LA76) MJU-73 is a spectral flare that is used in a cocktail mix of 1 for 1 with the M219 flare to increase protection against heat-seeking missile threats. This 1x1x8 inch sized flare is primarily used on the HH-60, and is expected to be qualified on several fixed-wing aircraft in the near future. This item is procured through the US Air Force.</p> <p>-(LA78) XM219 is a bundled flare that is used in a cocktail mix of 1 for 1 with the M219 flare to increase protection against heat-seeking missile threats. This 1x1x8 inch sized flare provides a unique dispensing pattern and is primarily used on the HH-60. This item is procured by the US Army/SOCOM.</p> <p>-(LA84) MJU-52A/B Decoy is an infrared countermeasure decoy used by F-15 aircraft against heat seeking missiles. This item is procured through USAF and is sole source to Alloy Surfaces. It is an unique form factor mechanically dispensed from a BOL dispenser.</p> <p>-(LA85) MJU-75 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-35 impulse cartridge. Used on C-17, C-5, and being evaluated for future use on other aircraft such as A-10 and F-16. The MJU-75 will replace the MJU-53, which is also replacing the MJU-10 and MJU-7. This item is procured through USAF.</p> <p>-(LA88) MJU-76 Flare is a thrusted magnesium base IR countermeasure. It consists of a 1x1 aluminum case, crimped and sealed plastic end cap, compression pad, safe and ignition device with sealing O-ring, finned aluminum flight body containing the flare grain with a molded PEEK nozzle and a weighted nose. The case uses a sealed cartridge cup and the flare is dispensed and ignited in flight by a BBU-35 or CCU-145 impulse cartridge. Used on C-17, C-130, and being evaluated for future use on other aircraft such as A-10, F-16, and F-35. MJU-76 will replace the MJU-71.</p> <p>-(L580) MK-58 is a marine location marker consisting of an aluminum body containing two pyrotechnic candles of a red phosphorus composition. The ignition end of the marker has three holes, two for smoke and flame emission and one for water to enter the MK72 Mod 1 seawater-activated battery. Adhesive foil discs hermetically seal the two emission holes. A reinforced adhesive foil strip with a rectangular pull ring hermetically seals the battery. The adhesive foil seals are protected during handling and shipping by a replaceable polyethylene protective cover. MK-58 is procured through Navy Crane.</p> <p>-(LY12) ALA-17C is an infrared countermeasure used by B-52 aircraft against heat seeking missiles. This item is procured through the US Air Force Global Strike Command and is currently upgrading to the ALE-47 dispenser system which may eliminate the ALA-17 and provide the ability to use common flares.</p> <p>-(LA70) Missile Simulator is a self-consuming ground launched missile simulator used during pilot training. The LA70 reaches an altitude of approximately 500 feet over ground level.</p> <p>-Items Less Than Five Million Dollars: All items have an annual procurement of less than 5,000,000 and are Code A.</p> <p>IMPULSE CARTRIDGES:</p> <p>-BBU-35 Impulse Cartridge (MG62): Deploys countermeasure chaff and ignites flares from the aircraft dispenser for multiple aircraft. Applicable to the M206, MJU-61, MJU-66, MJU-64, MJU-71, MJU-73, MJU-75, etc. countermeasure flares and RR170 and RR188 chaff.</p> <p>-BBU-36 Impulse Cartridge (MG11): Deploys countermeasure flare on multiple aircraft to protect aircraft from IR weapons. Flare applications include: MJU-7, MJU-10, MJU-40, MJU-53 AND MJU-62.</p> <p>-BBU-46 Impulse Cartridge (MT40): Deploys a MJU-23 countermeasure flare on the B-1.</p> <p>-BBU-48 Impulse Cartridge (SS27): Deploys countermeasure chaff on multiple aircraft to protect aircraft from radar and radar guided weapons. Chaff applications include: RR-180 and RR-196.</p> <p>-BBU-59 Impulse Cartridge (WD01): Deploys a MJU-39 countermeasure flare on the F-22.</p> <p>-BBU-63 Impulse Cartridge (SS44): Bomb ejection cartridge used with the BRU-44 bomb rack on the B-2.</p> <p>-ARD 446 Impulse Cartridge (WB33): Weapon and store release cartridge.</p> <p>-ARD 863 Impulse Cartridge (M189): Weapon and store release cartridge.</p> <p>-RR-170 Chaff (LY07): RF countermeasure; dispensed by BBU-35</p> <p>-RR-180 Chaff (SY16): RF countermeasure; dispensed by BBU-48</p> <p>-RR-188 Chaff (3W37): RF countermeasure; dispensed by BBU-35</p> <p>-RR-196 Chaff (CY94): RF countermeasure; dispensed by BBU-48</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 16: Flares		P-1 Line Item Number / Title: 356010 / Expendable Countermeasures
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>-RR-196(T-1) Chaff (NY02): RF countermeasure; dispensed by BBU-48</p> <p>-RR-198/AL: F-35 operational chaff round dispensed by CCU-145. Procurement will be through a Navy managed contract vehicle.</p> <p>-RR-199: F-35 training chaff round dispensed by CCU-145. Procurement will be through a Navy managed contract vehicle.</p> <p>-CCU-106: Government-owned weapon and stores release cartridge. This cartridge will replace the proprietary ARD 446 cartridge over the next several years. Procurement will be through an Air Force managed contract vehicle.</p> <p>-CCU-107 (MT95): Government-owned weapon and stores release cartridge. This cartridge is currently used on the KC-46 and will replace the proprietary ARD 863 cartridge over the next several years. Procurement will be through a Navy managed contract vehicle.</p> <p>-CCU-136 (WA83): Deploys towed decoy; used with AN/ALE-70(V)1</p> <p>-CCU-145 (WB24): Deploys countermeasure flares from F-35. Applicable to MJU-68 and MJU-71</p> <p>-CCU-41 (MF60): Deploys towed decoy for F-15 and B-1; used with ALE-50</p> <p>-CCU-167 (DWGY): Cutter cart for steel hoist cables on helicopters and various towed targets on multiple aircraft</p> <p>-MK2 (M190): Weapons and pylons release cartridge; tanks and special equipment; cutter cartridge.</p> <p>-MK 107 MOD 1 (M943): Used on rotary launcher for B-1, MXU-611 Fuel Tank Release mechanism and LAU-93A Phoenix Missile Launcher</p> <p>-M21 (M500): Parachute reefing line cutter on C-17</p> <p>These funds may also procure inventoried items which may not be procured on an annual basis and could be required on an emerging basis. Variations to cover critical shortfalls to inventory objectives as well as actual and planned expenditures will be addressed during execution year.</p> <p>Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>This program element may include necessary test or evaluation equipment required to assess Advanced Infrared Countermeasure weapons system capabilities.</p> <p>Funding for this exhibit contained in PEs: 0208030F and 0207599F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Expendable Countermeasures				- / -	- / 85.934	- / 97.098	- / 66.186	- / -	- / 66.186
P-40a	Impulse Cartridges				- / -	- / 0.000	- / 23.450	- / 13.600	- / -	- / 13.600
P-40	Total Gross/Weapon System Cost				- / -	- / 85.934	- / 120.548	- / 79.786	- / -	- / 79.786

*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:

This program, Expendable Countermeasures P-40A Category Expendable Countermeasures Item MJU-52 BOL/IRFLARE, is a new start.
 This program, Expendable Countermeasures P-40A Category Expendable Countermeasures Item (L580) MK-58, is a new start.

FY2024 funds the purchase of Flares, Expendable Countermeasures, and Impulse Cartridges used by A-10, AC-130, F-15, F-16, C-5, C-17 and F-35/JSF aircraft, HH-53 and HH-60 helicopters and other aircraft to protect the warfighter against advanced air-to-air and ground-to-air infrared and heat seeking attack weapon systems and missiles.

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16 **P-1 Line Item Number / Title:** 356010 / Expendable Countermeasures **Aggregated Items Title:** Expendable Countermeasures

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Expendable Countermeasures																				
(LA76) MJU-73 MTRVFLARE	A		-	-	-	-	-	-	0.001	4,000	4,000	0.001	760	0.750	-	-	-	0.001	760	0.750
MJU-52 BOL/IRFLARE	A		-	-	-	-	-	-	-	-	-	0.001	1,000	1,000	-	-	-	0.001	1,000	1,000
MJU-75 (LA85)	A		-	-	-	0.002	13,723	27,446	0.002	15,790	31,579	0.002	11,174	22,348	-	-	-	0.002	11,174	22,348
MJU-76 (LA88)	A		-	-	-	0.001	4,205	4,205	0.001	7,000	7,000	0.001	9,500	9,500	-	-	-	0.001	9,500	9,500
Items Less than 5M	A		-	-	-	-	-	2,934	-	-	2,419	-	-	1,407	-	-	-	-	-	1,407
Navy Crane Testing	A		-	-	-	-	-	1,949	-	-	4,200	-	-	1,300	-	-	-	-	-	1,300
(LA61) MJU-66 DecoyACFT Flare	A		-	-	-	0.000	83,637	9,400	-	-	-	0.000	40,268	4,800	-	-	-	0.000	40,268	4,800
(LA66) MJU-61 IR CMFlare	A		-	-	-	0.001	43,212	40,000	0.000	660,041	43,700	0.000	286,176	23,331	-	-	-	0.000	286,176	23,331
(L580) MK-58	A		-	-	-	-	-	-	-	-	-	0.001	1,000	1,000	-	-	-	0.001	1,000	1,000
(LA36) MJU-62 IR CMFLARE	A		-	-	-	-	-	-	0.000	9,702	4,200	0.000	1,683	0,750	-	-	-	0.000	1,683	0,750
Subtotal: Expendable Countermeasures			-	-	-	-	-	85.934	-	-	97.098	-	-	66.186	-	-	-	-	-	66.186
Total			-	-	-	-	-	85.934	-	-	97.098	-	-	66.186	-	-	-	-	-	66.186

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

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 16 **P-1 Line Item Number / Title:** 356010 / Expendable Countermeasures **Aggregated Items Title:** Impulse Cartridges

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Impulse Cartridges																				
(3W37) CHAFF, RR-188	A		-	-	-	-	-	0.000	0.000	635,273	4.336	0.001	1,000	1.000	-	-	-	0.001	1,000	1.000
(M189) ARD-863	A		-	-	-	-	-	-	0.000	78,291	0.500	-	-	-	-	-	-	-	-	-
(YWAP) RR-198	A		-	-	-	-	-	0.000	0.000	6,479	1.561	0.000	4,150	1.000	-	-	-	0.000	4,150	1.000
(YWAQ) RR-199	A		-	-	-	-	-	0.000	0.000	2,940	0.156	0.000	33,923	1.800	-	-	-	0.000	33,923	1.800
(MG11) CTG, IMPULSE, BBU-36/B	A		-	-	-	-	-	0.000	0.000	40,487	1.700	0.001	1,000	1.000	-	-	-	0.001	1,000	1.000
(MG62) BBU-35/B, IMPULSE CARTRIDGE	A		-	-	-	-	-	0.000	0.001	3,300	3.264	0.001	1,500	1.500	-	-	-	0.001	1,500	1.500
(NY02) CHAFF, RR-196	A		-	-	-	-	-	0.000	0.000	63,722	3.166	0.001	2,000	2.000	-	-	-	0.001	2,000	2.000
(SS27) BBU-48/B IMPULSE CARTRIDGE	A		-	-	-	-	-	0.000	0.000	361,224	3.668	0.001	2,000	2.000	-	-	-	0.001	2,000	2.000
(SS44) BBU-63/B IMPULSE CARTRIDGE	A		-	-	-	-	-	0.000	0.001	1,571	2.000	0.001	300	0.300	-	-	-	0.001	300	0.300
(SY16) RR-180 CHAFF CARTRIDGE	A		-	-	-	-	-	0.000	0.000	161,495	0.166	0.001	2,000	2.000	-	-	-	0.001	2,000	2.000
(MF60) CCU-41	A		-	-	-	-	-	0.000	0.000	31,411	0.300	-	-	-	-	-	-	-	-	-
(M190) MK-2	A		-	-	-	-	-	0.000	0.001	575	0.500	-	-	-	-	-	-	-	-	-
(WB24) CCU-145	A		-	-	-	-	-	0.000	0.000	283,263	2.000	0.001	1,000	1.000	-	-	-	0.001	1,000	1.000
(DWGY) CCU-167/B	A		-	-	-	-	-	0.000	0.002	87	0.133	-	-	-	-	-	-	-	-	-
Items less than \$5 Mil	A		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Impulse Cartridges			-	-	-	-	-	0.000	-	-	23.450	-	-	13.600	-	-	-	-	-	13.600
Total			-	-	-	-	-	0.000	-	-	23.450	-	-	13.600	-	-	-	-	-	13.600

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

Remarks:

NOTE: Impulse Cartridges were justified in the Cartridges WSC 352010 in FY2022 and prior and are not a new start. In FY 2023, Impulse Cartridges efforts were transferred from WSC 352010 Cartridges to WSC 356010, Flares, in order to better align with their purpose/use.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	20.795	102.918	109.562	-	109.562	131.919	136.836	134.160	157.675	-	793.865
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	20.795	102.918	109.562	-	109.562	131.919	136.836	134.160	157.675	-	793.865
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	20.795	102.918	109.562	-	109.562	131.919	136.836	134.160	157.675	-	793.865

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

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

Description:

Procure advanced fuze/sensor systems and modernization capabilities required by US and Allied warfighters to support the commander's intent. These fuze/sensor systems provide the DoD with reliable and effective weapon safing, arming, sensing, and attack capabilities. Characterize how fuzing impacts the survivability, producibility, and lethality of various weapon systems; including internal pressures, warhead effects, and ignition characteristics.

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

- FMU-139D/B is a Navy-led general purpose fuze Engineering Change Proposal (ECP) program to replace the FMU-139C/B and FMU-152A/B in the USN and USAF inventories. This effort is a low cost option that meets both services' requirements for a better buying power business case. The USAF continues to monitor weapon expenditure rates in the AOR and adjust fuze Inventory Objectives (IO) accordingly. Legacy fuzes will age out and in response the FMU-139D/B inventory objective is anticipated to increase by FY25. Joint USN/USAF acquisition will continue with USAF ordering 20,000 units annually to meet inventory objectives and the minimum sustainment rate. Manufacturing capacity for the FMU-139D/B remains at 50,000 fuzes per year, providing a delta of 30,000 units per year available for USN, FMS, or increased USAF requirements.

- FMU-167 Hard Target Void Sensing Fuze (HTVSF) (EE27), is an advanced system designed to provide fuzing and void sensing functions, enabling a weapon to penetrate and destroy hardened, deeply buried targets protected by multiple layers of soil and/or reinforced concrete. The HTVSF provides for in-flight cockpit programmability, safing and arming, multi-function (time delay and void sensing) and multi-delay arming capabilities. USAF and USN will employ HTVSF in penetrator warheads, contributing to the ability to strike and functionally defeat high value/high payoff targets in order to achieve strategic and operational objectives. IO increases may necessitate additional sustainment acquisition. The Air Force is the lead service for procurement/sustainment.

- DSU-43/B Cockpit Selectable Height-of-Burst Sensor (C-HOBS) replaces the current DSU-33D/B proximity sensor. C-HOBS eliminates two obsolescence issues the DSU-33D/B is currently experiencing and will replace the single factory Height-Of-Burst (HOB) setting with the addition of multiple HOB options selectable via both a manual switch and a cockpit-selectable interface. These selection options allow flexibility during flight to address a wide array of targets. The C-HOBS is intended to optimize the effects of Next Generation Attack Weapons (NGAAWs), and interface with and provide a cockpit-selectable proximity function to general and special purpose weapons. EMD contract awarded March 2019. MS-C approved 27 Sep 2022 and LRIP awarded Nov 2022.

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

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 18: Fuzes		P-1 Line Item Number / Title: 356120 / Fuzes
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>This program leverages Digital acquisition tenets of open, agile, and digital. Invests in analytical, information management, data management, digital environments, networks, facilities, and security infrastructure upgrades directly supporting development and sustainment of this program's capabilities, while leveraging DoD and DAF enterprise IT solutions.</p> <p>Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p> <p>Funding for this exhibit contained in PEs 0208030F and 0207599F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	C-HOBS		A		- / -	- / 14.648	- / 60.339	- / 68.386	- / -	- / 68.386
P-5	FMU-139D/B		A		- / -	- / 6.147	- / 42.579	- / 41.176	- / -	- / 41.176
P-40	Total Gross/Weapon System Cost				- / -	- / 20.795	- / 102.918	- / 109.562	- / -	- / 109.562

*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:

FY 2024 funding purchases fuzes and associated items.

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

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Exhibit P-5, Cost Analysis: PB 2024 Air Force						Date: March 2023			
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18				P-1 Line Item Number / Title: 356120 / Fuzes			Item Number / Title [DODIC]: C-HOBS		
ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:			
Resource Summary				Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (<i>Units in Each</i>)				-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)				-	14.648	60.339	68.386	-	68.386
Less PY Advance Procurement (<i>\$ in Millions</i>)				-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)				-	14.648	60.339	68.386	-	68.386
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)				-	14.648	60.339	68.386	-	68.386
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (<i>\$ in Millions</i>)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)				-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - C-HOBS Cost																		
Recurring Cost																		
C-HOBS	-	-	-	0.002	7,267	14.534	0.002	29,663	59.325	0.002	33,618	67.236	-	-	-	0.002	33,618	67.236
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	14.534	-	-	59.325	-	-	67.236	-	-	-	-	-	67.236
<i>Subtotal: Hardware - C-HOBS Cost</i>	-	-	-	-	-	14.534	-	-	59.325	-	-	67.236	-	-	-	-	-	67.236
Support - Support Cost																		
Contract Services	-	-	-	-	-	0.100	-	-	1.000	-	-	1.000	-	-	-	-	-	1.000
Other Government Costs	-	-	-	-	-	0.014	-	-	0.014	-	-	0.150	-	-	-	-	-	0.150
<i>Subtotal: Support - Support Cost</i>	-	-	-	-	-	0.114	-	-	1.014	-	-	1.150	-	-	-	-	-	1.150
Gross/Weapon System Cost	-	-	-	-	-	14.648	-	-	60.339	-	-	68.386	-	-	-	-	-	68.386

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Exhibit P-5, Cost Analysis: PB 2024 Air Force						Date: March 2023		
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 18			P-1 Line Item Number / Title: 356120 / Fuzes			Item Number / Title [DODIC]: FMU-139D/B		
ID Code (A=Service Ready, B=Not Service Ready) : A				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity (<i>Units in Each</i>)			-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)			-	6.147	42.579	41.176	-	41.176
Less PY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)			-	6.147	42.579	41.176	-	41.176
Plus CY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)			-	6.147	42.579	41.176	-	41.176
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>								
Initial Spares (<i>\$ in Millions</i>)			-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)			-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - FMU-139D/B Cost																		
Recurring Cost																		
FMU-139/B	-	-	-	0.002	3,055	6.110	0.002	20,182	40.364	0.002	19,513	39.026	-	-	-	0.002	19,513	39.026
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	6.110	-	-	40.364	-	-	39.026	-	-	-	-	-	39.026
<i>Subtotal: Hardware - FMU-139D/B Cost</i>	-	-	-	-	-	6.110	-	-	40.364	-	-	39.026	-	-	-	-	-	39.026
Support - FMU-139D/B Cost																		
Contractor Support	-	-	-	-	-	0.000	-	-	2.060	-	-	2.000	-	-	-	-	-	2.000
Other Government Costs	-	-	-	-	-	0.037	-	-	0.155	-	-	0.150	-	-	-	-	-	0.150
<i>Subtotal: Support - FMU-139D/B Cost</i>	-	-	-	-	-	0.037	-	-	2.215	-	-	2.150	-	-	-	-	-	2.150
Gross/Weapon System Cost	-	-	-	-	-	6.147	-	-	42.579	-	-	41.176	-	-	-	-	-	41.176

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 02: Weapons / BSA 1: Small Arms	P-1 Line Item Number / Title: 357010 / Small Arms
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
--	---	--

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	10.093	11.773	29.306	-	29.306	25.273	27.098	26.339	26.613	-	156.495
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	10.093	11.773	29.306	-	29.306	25.273	27.098	26.339	26.613	-	156.495
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	10.093	11.773	29.306	-	29.306	25.273	27.098	26.339	26.613	-	156.495

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

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

Description:

FY2024 includes 4,900 thousand for the Overseas Operations Costs budget request.

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.

Next Gen Carbine, Next Gen Squad Weapon, M240B Machinegun (7.62mm), M249 Automatic Rifle (5.56mm), M4A1 Carbine (5.56mm - Auto), APC9K, and Glock Handgun are FY23 New Starts.

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

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Exhibit P-40, Budget Line Item Justification: PB 2024 Air Force **Date:** March 2023

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

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-40a	SMALL ARMS Items Less Than \$5M				- / -	- / 10.093	- / 11.773	- / 29.306	- / -	- / 29.306
P-40	Total Gross/Weapon System Cost				- / -	- / 10.093	- / 11.773	- / 29.306	- / -	- / 29.306

*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:

This program, Small Arms P-40A Category SMALL ARMS ITEMS LESS THAN \$5 MILLION Item M2A1 (.50 Cal Machine Gun), is a new start.
 This program, Small Arms P-40A Category SMALL ARMS ITEMS LESS THAN \$5 MILLION Item M320A1, is a new start.
 This program, Small Arms P-40A Category SMALL ARMS ITEMS LESS THAN \$5 MILLION Item MK19, is a new start.
 This program, Small Arms P-40A Category SMALL ARMS ITEMS LESS THAN \$5 MILLION Item MK22, is a new start.
 This program, Small Arms P-40A Category SMALL ARMS ITEMS LESS THAN \$5 MILLION Item M3A1, is a new start.
 This program, Small Arms P-40A Category SMALL ARMS ITEMS LESS THAN \$5 MILLION Item M249 Automatic Rifle (5.56mm), is a new start.

FY2024 Baseline funding in the amount of \$24.361M procures Next Generation Carbines, Next Generation Squad Weapons, M240B Machine Guns (7.26mm), M4A1 Carbines (5.56mm-Auto), and allows for annual replacement of condemned items.

Major FY24 procurements include M3A1s, M3A1 Fire Controls, M4s, Optics, and M249 Automatic Rifles.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
SMALL ARMS ITEMS LESS THAN \$5 MILLION																				
Suppressors	A		-	-	-	0.002	900	1.440	-	-	-	-	-	-	-	-	-	-	-	-
Next Gen Carbine	A		-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
Next Gen Squad Weapon	A		-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
Optics	A		-	-	-	-	-	2.071	-	-	1.754	0.001	6,256	4.885	-	-	-	0.001	6,256	4.885
M18 GO	A		-	-	-	-	-	0.028	-	-	0.000	-	-	-	-	-	-	-	-	-
M18	A		-	-	-	-	-	0.070	-	-	0.000	-	-	-	-	-	-	-	-	-
AN/PEQ-15 Laser Designator	A		-	-	-	-	-	0.054	0.001	1,200	1.426	0.001	2,000	2.439	-	-	-	0.001	2,000	2.439
M2A1 (.50 Cal Machine Gun)	A		-	-	-	-	-	-	-	-	-	0.013	14	0.180	-	-	-	0.013	14	0.180
M320A1	A		-	-	-	-	-	-	-	-	-	0.002	180	0.330	-	-	-	0.002	180	0.330
MK19	A		-	-	-	-	-	-	-	-	-	0.015	14	0.214	-	-	-	0.015	14	0.214
MK22	A		-	-	-	-	-	-	-	-	-	0.013	105	1.362	-	-	-	0.013	105	1.362
M3A1	A		-	-	-	-	-	-	-	-	-	0.040	142	5.680	-	-	-	0.040	142	5.680
M3A1 Fire Control	A		-	-	-	-	-	-	-	-	-	0.035	142	4.970	-	-	-	0.035	142	4.970
M240B Machinegun (7.62mm)	A		-	-	-	-	-	-	0.011	150	1.655	0.012	300	3.672	-	-	-	0.012	300	3.672
M205 Tripods	A		-	-	-	-	-	-	0.002	400	0.847	-	-	-	-	-	-	-	-	-
M249 Automatic Rifle (5.56mm)	A		-	-	-	-	-	-	-	-	-	0.008	243	2.023	-	-	-	0.008	243	2.023
M4A1 Carbine (5.56mm - Auto)	A		-	-	-	-	-	-	0.001	4,425	3.363	0.001	800	0.522	-	-	-	0.001	800	0.522
M4	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC9K	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glock Handguns	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOD PROJECTS PARTS PROCUREMENT	A		-	-	-	-	-	0.220	-	-	0.228	-	-	-	-	-	-	-	-	-
FIRST DESTINATION TRANSPORTATION	A		-	-	-	-	-	0.500	-	-	-	0.500	1	0.500	-	-	-	0.500	1	0.500
Program Support Costs, Contractor Services	A		-	-	-	-	-	1.350	-	-	2.100	2.100	1	2.100	-	-	-	2.100	1	2.100
Program Support Cost, Other Government Costs	A		-	-	-	-	-	0.360	-	-	0.400	0.427	1	0.427	-	-	-	0.427	1	0.427
Hold for Price Adjustments	A		-	-	-	-	-	4.000	-	-	0.000	-	-	-	-	-	-	-	-	-
Subtotal: SMALL ARMS ITEMS LESS THAN \$5 MILLION			-	-	-	-	-	10.093	-	-	11.773	-	-	29.306	-	-	-	-	-	29.306

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2024 Air Force **Date:** March 2023

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Total			-	-	-	-	-	10.093	-	-	11.773	-	-	29.306	-	-	-	-	-	29.306

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

Remarks:
FY2022 includes 5,775 thousand in Overseas Operations Costs execution.