Department of Defense Fiscal Year (FY) 2022 Budget Estimates

May 2021



Air Force

Justification Book Volume 1 of 1

Procurement of Ammunition, Air Force

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Air Force • Budget Estimates FY 2022 • Procurement

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Appropriation Language Fiscal Year (FY) 2022 Budget Estimates 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, for the foregoing purposes, and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; other expenses necessary for the foregoing purposes, and overseas contingency operations, \$795,168,000 to remain available for obligation until September 30, 2024.

Exhibit footnotes for FY 2020 actuals and FY 2021 Enacted:

- a. FY 2020 Actuals: "Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 (P.L. 116-94) and the Coronavirus Aid, Relief, and Economic Security Act (P.L. 116-136)."
- b. FY 2021 Enacted (for every appropriation except O&M, Army, O&M, Navy, and O&M, AF): "Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260)."
- c. FY 2021 Enacted (for O&M, Army, O&M, Navy, and O&M, AF): "Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260) and funds provided by the Congress as OCO to Base Requirements in O&M Army, O&M Navy, and O&M AF."

Department of the Air Force FY 2022 President's Budget Exhibit P-1 FY 2022 President's Budget Total Obligational Authority (Dollars in Thousands)

05 May 2021

Appropriation	FY 2020 Actual*	FY 2021 Enacted**	FY 2022 Request
Aircraft Procurement, Air Force	17,550,262	19,985,491	15,727,669
Missile Procurement, Air Force	2,777,558	2,365,953	2,669,811
Space Procurement, Air Force	2,353,383		
Procurement of Ammunition, Air Force	2,535,419	1,336,461	795,168
Procurement, Space Force		2,310,994	2,766,854
Other Procurement, Air Force	25,199,603	23,796,987	25,251,137
Total Department of the Air Force	50,416,225	49,795,886	47,210,639

Department of the Air Force FY 2022 President's Budget Exhibit P-1 FY 2022 President's Budget Total Obligational Authority (Dollars in Thousands)

05 May 2021

Appropriation: Procurement of Ammunition, Air Force

Budget Activity	FY 2020 Actual*	FY 2021 Enacted**	FY 2022 Request
01. Ammunition	2,491,828	1,316,319	782,825
02. Weapons	43,591	20,142	12,343
Total Procurement of Ammunition, Air Force	2,535,419	1,336,461	795 , 168

Department of the Air Force FY 2022 President's Budget Exhibit P-1 FY 2022 President's Budget Total Obligational Authority (Dollars in Thousands)

05 May 2021

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No Item Nomenclature	Ident Code		-	Enac Quantity		Re Quantit	-	S e c
Budget Activity 01: Ammunition								-
Rockets								
1 Rockets	A		207,928		34,451		36,597	U
Cartridges								
2 Cartridges	А		193,048		157,799		169 , 163	U
Bombs								
3 Practice Bombs	A		29,313		34,313		48,745	U
4 General Purpose Bombs	A		621,732		369,566		176 , 565	U
5 Massive Ordnance Penetrator (MOP)							15,500	U
6 Joint Direct Attack Munition	А	24794	1,034,224	16800	459,712	1919	124,102	U
7 B-61 Less: Advance Procurement (PY)	A	593	(55,531) (242)		(35,634)		(2,709)	U
			55 , 773	-	35,634		2,709	•
Other Items								
8 Cad/Pad	A		56,482		47,830		47,210	U
9 Explosive Ordnance Disposal (EOD)	A		6,182		6,232		6,151	U
10 Spares And Repair Parts	A		533		542		535	U
11 Modifications	A		1,291		1,310		292	U
12 Items Less Than \$5,000,000	А		1,720		4,753		9,164	U
Flares								
13 Flares	A		139,388		61,259		95 , 297	U

Department of the Air Force FY 2022 President's Budget Exhibit P-1 FY 2022 President's Budget Total Obligational Authority (Dollars in Thousands)

05 May 2021

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No Item Nomenclature	Ident Code	FY 2020 Actual* Quantity Cost	FY 2021 Enacted** Quantity Cost	FY 2022 Request Quantity Cost	S e c
					-
Fuzes					
14 Fuzes	A	144,214	102,918	50,795	U
Total Ammunition		2,491,828	782,825		
Budget Activity 02: Weapons					
Small Arms					
15 Small Arms	A	43,591	20,142	12,343	U
Total Weapons		43,591	20,142	12,343	
Total Procurement of Ammunition, Air Force		2,535,419	1,336,461	795,168	

Air Force • Budget Estimates FY 2022 • Procurement

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

Appropriation 3011F: Procurement of Ammunition, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title Page
1	01	11	351010	Rockets
2	01	12	352010	CartridgesVolume 1 - 9
3	01	13	353010	Practice BombsVolume 1 - 25
4	01	13	353020	General Purpose BombsVolume 1 - 29
5	01	13	353190	Massive Ordnance Penetrator (MOP)Volume 1 - 43
6	01	13	353620	Joint Direct Attack MunitionVolume 1 - 47
7	01	13	354040	B-61Volume 1 - 57
8	01	15	355100	Cad/Pad Volume 1 - 67
9	01	15	355450	Explosive Ordnance Disposal (EOD)Volume 1 - 71
10	01	15	355900	Spares And Repair PartsVolume 1 - 77
11	01	15	355970	Modifications Volume 1 - 79
12	01	15	355990	Items Less Than \$5,000,000 Volume 1 - 81
13	01	16	356010	Flares Volume 1 - 85
14	01	18	356120	FUZESVolume 1 - 103

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Appropriation 3011F: Procurement of Ammunition, Air Force

Line #	ВА	BSA	Line Item Number	Line Item Title P	age
15	02	01	357010	Small ArmsVolume 1 -	109

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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 - 57
Cad/Pad	355100	8	01	15 Volume 1 - 67
Cartridges	352010	2	01	12 Volume 1 - 9
Explosive Ordnance Disposal (EOD)	355450	9	01	15Volume 1 - 71
FUZES	356120	14	01	18 Volume 1 - 103
Flares	356010	13	01	16 Volume 1 - 85
General Purpose Bombs	353020	4	01	13 Volume 1 - 29
Items Less Than \$5,000,000	355990	12	01	15 Volume 1 - 81
Joint Direct Attack Munition	353620	6	01	13 Volume 1 - 47
Massive Ordnance Penetrator (MOP)	353190	5	01	13 Volume 1 - 43
Modifications	355970	11	01	15 Volume 1 - 79
Practice Bombs	353010	3	01	13 Volume 1 - 25
Rockets	351010	1	01	11 Volume 1 - 1
Small Arms	357010	15	02	01 Volume 1 - 109
Spares And Repair Parts	355900	10	01	15 Volume 1 - 77

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ACRONYMS

GENERAL ACRONYM	S
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

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

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

BASE / ORGANIZATIONAL ACRONYMNS

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

AFR AFSOC AFSPC AIA ALC AMC ANG ASC AETC AU AWS CIA DGSC DLA DOE DPSC DSCC DTIC	 Air Force Reserve AF Special Operations Command Air Force Space Command Air Intelligence Agency Air Logistics Center Air Mobility Command Air National Guard Aeronautical Systems Center Air Education Training Command Air University Air Weather Service Central Intelligence Agency Defense General Support Center Defense Personnel Support Center Defense Supply Center, Columbus Defense Technical Information Center
ER ESC	Eastern RangeElectronic 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 USAF	- Pacific Air Forces - 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

CONTRACT METHOD / TYPE ACRONYMNS

С	- 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 ACRONYMNS

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

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

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

Exhibit P-40, Budget Line Item	Justificatio	on: PB 2022	Air Force						Date: N	1ay 2021		
Appropriation / Budget Activity 3011F: Procurement of Ammunition Rockets				/ BSA 11:		Line Item N 10 / Rocket		tle:				
ID Code (A=Service Ready, B=Not Service Ready):	A		Program Ele	ments for Co	de B Items: N	I/A		Other Relate	d Program El	ements: N/A		
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	207.928	34.451	36.597	-	36.597	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	207.928	34.451	36.597	-	36.597	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	207.928	34.451	36.597	-	36.597	-	-	-	-	-	-
(The following	g Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne correspondin	g budget request	s are document	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

- FY2020 funding totals include \$84.960M appropriated for Overseas Contingency Operations.

- FY2021 funding totals include \$19.489M appropriated for Overseas Contingency Operations.

- FY2022 funding totals include \$15.079M requested for Direct War and/or Enduring Requirements.

- 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) and M282 Multi-Purpose Penetrator (MPP) warheads are low-cost, low-collateral damage capabilities. The M282 MPP warhead provides aircrew and ground commanders greatly enhanced weaponeering 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.

Exhibit P-40, Budget Line Item Justification	n: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget S 3011F: Procurement of Ammunition, Air Forc Rockets		P-1 Line Item 351010 / Rock	Number / Title: ets
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B	B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			
- The Signal Practice (H872) warhead provides a trainir	ıg capability.		
- The WP (H855) warhead provides forward air control	aircraft with target locations from a standoff dist	tance in a hostile envir	onment.
- The LAU-131A/A (HA91) and the LAU-68F/A (HA94) a APKWS II rockets. The extended length launchers are			nodate both legacy length 2.75 inch diameter rockets and the extended length of the e launcher.
Tactical Air to Ground Munitions (TAGM), PEO Missiles	s and Space at Redstone Arsenal Alabama, and 181), this item is necessary for use by the active	d/or the U.S. Navy PM	These items are procured by AFLCMC/EBH through the U.S. Army Missile Command, A-242 at Patuxent River Naval Air Station. In accordance with Section 1815 of the ents of the Armed Forces for homeland defense missions, domestic emergency
Funding may be used to address production Diminishin replacement, to include electronic components used co			elescence issues through studies, bridge buys, life of type buys, supplier/parts future production capabilities and capacities.
Note: Procurement quantities can change based on neg	gotiated options/pricing bands and available fur	nding, in accordance w	ith Title 10, U.S. Code Section 2308 BUY-TO-BUDGET ACQUISITION.
These funds may also procure inventoried items which as actual and planned expenditures will be addressed of		ould be required on an	emerging basis. Variations to cover critical shortfalls to inventory objectives as well
Funding for this exhibit is contained in PE 0207599F an	ıd PE 0208030F.		

Exhib	it P-40, Budget Line Item Justification:	PB 2022 Ai	r Fo	rce				Date: M	ay 2021	
	Depriation / Budget Activity / Budget Sub E: Procurement of Ammunition, Air Force / ets		nuni	ition / I		P-1 Line Item Nu 351010 / Rockets				
ID Cod	e (A=Service Ready, B=Not Service Ready): A	Pro	ograr	n Eleme	ents for Code B Iter	ms: N/A	Other	Related Program Ele	ements: N/A	
Line Ite	em MDAP/MAIS Code: N/A									
	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	(H812) WHD ILLUM M257				- / -	- / 0.000	- /1.000	- / 0.999	- / -	- / 0.999
P-40a	(H855) WHD 2.75 RKT SMK M156 PD M427				- / -	- / 0.000	- / 0.000	- / 2.500	- / -	- / 2.500
P-40a	(HA06) WARHEAD, 2.75 ILLUM				- / -	- / 0.000	- / 1.501	- / 1.498	- / -	- / 1.498
P-5	APKWS		Α		- / -	- / 207.928	- / 31.950	- / 31.600	- / 0.000	- / 31.600
P-40	Total Gross/Weapon System Cost				- / -	- / 207.928	- / 34.451	- / 36.597	- / -	- / 36.597
*Title rep	presents 1) the Number / Title for Items; 2) the Number / Title	[DODIC] for Am	nmuni	tion; and/	or 3) the Number / Title	(Modification Type) for M	Modifications. Title repre	sents the P-40a Title wh	nen only the P-40a Sumr	nary/Total is shown.
Note: To	tals in this Exhibit P-40 set may not be exact or sum exactly	due to rounding								

Justification:

FY2022 funding totals include \$15.079M requested for Direct War and/or Enduring Requirements. 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.

Exhibit P-40a,													_			Date: Ma	•					
Appropriation / 3011F / 01 / 11																Aggregated Items Title: (H812) WHD ILLUM M257						
			P	Prior Years	s		FY 2020	2020 FY 2021					(2022 Bas	5e	F	FY 2022 OC	0	FY 2022 Total				
ltem Number / Title [DODIC]	ID	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cos (\$ M)	t Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)		
Uncategorized								'														
(H812) WHD ILLUM M257	A		-	-	-	-	-	0.000	-	-	1.000	0.003	333	0.999	-	-	-	0.003	333	0.999		
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	1.000	-	-	0.999	-	-	-	-	-	0.99		
Total			-	-	-	-	-	0.000	-	-	1.000	-	-	0.999	-	-	-	-	-	0.999		
Note: Subtotals or Tot				may not be		in cracky, a		ang.														

Exhibit P-40a,	Bud	lget l	tem Jus	tificatio	n For A	ggregat	ed Iten	ns: PB 20)22 Air F	orce					[Date: Mag	y 2021			
Appropriation 3011F / 01 / 11	/ Bu	idget	Activity	/ Budg	et Sub	Activity		P-1 Line 351010 /			Title:				(Aggregat H855) W ⁄/427			MK M156	6 PD
			Р	rior Years	s		FY 2020)		FY 2021		F۱	(2022 Ba	se	F	Y 2022 OC	:0	F۱	7 2022 Tot	al
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cos (\$ M)	t Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware																				
Warhead SMK M156 (H855)	Α		-	-	-	-	-	0.000	-	-	0.000	0.008	329	2.500	-	-	-	0.008	329	2.500
Subtotal: Hardware			-	-	-	-	-	0.000	-	-	0.000	-	-	2.500	-	-	-	-	-	2.500
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	2.500	-	-	-	-	-	2.500

Note xact or sum exactiv, due to rou

	get It	em Just	tificatio	n For A	ggregate	ed Item	s: PB 20	022 Air F	orce					D	ate: Ma	y 2021				
Appropriation / Bud 011F / 01 / 11	lget	Activity	/ Budg	et Sub	Activity:			Item Nu Rockets		Title:		Aggregated Items Title: (HA06) WARHEAD, 2.75 ILLUM								
		P	rior Years	s		FY 2020			FY 2021		F۱	2022 Bas	se	F	FY 2022 OCO			FY 2022 Total		
		Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	
ncategorized	I						. ,		. ,									. ,		
(HA06) WARHEAD, A 2.75 ILLUM		-	-	-	-	-	0.000	-	-	1.501	0.003	497	1.498	-	-	-	0.003	497	1.49	
ubtotal: Uncategorized		-	-	-	-	-	0.000	-	-	1.501	-	-	1.498	-	-	-	-	-	1.4	
otal		-	-	-	-	-	0.000	-	-	1.501	-	-	1.498	-	-	-	-	-	1.49	

Exhibit P-5, Cost															/lay 2021			
Appropriation / B 3011F / 01 / 11	udget A	ctivity /	Budget	Sub Acti	vity:		.ine Iten 10 / Roc	i Numbe kets	r / Title:					Item N APKWS	u mber / T S	itle [DO	DIC]:	
ID Code (A=Service Read	ly, B=Not Serv	ice Ready):	A			·			M	DAP/MAIS	Code:							
F	Resource	Summ	ary		F	Prior Yea	ars	FY 20	20	FY	2021	FY 2	2022 Bas	se F	Y 2022 C	oco	FY 2022	Total
Procurement Quantity (Uni			-				-		-		-			-		-		-
Gross/Weapon System Co	ost (\$ in Millior	is)					-		207.928		31.950)	3	1.600		0.000		31.600
Less PY Advance Procure	ement (\$ in Mi	llions)					-		-		-			-		-		-
Net Procurement (P-1) (\$ i	in Millions)						-		207.928		31.950)	3	1.600		0.000		31.600
Plus CY Advance Procure	ment (\$ in Mil	lions)					-		-		-			-		-		-
Total Obligation Authorit	ty (\$ in Millions	5)					-		207.928		31.950)	31	1.600		0.000		31.600
(T)	he following l	Resource Su	ummary row	s are for info	rmational pu	irposes only	. The corres	ponding bud	get request	s are docume	ented elsewh	ere.)		1				
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Ur	nit Cost (\$ in I	Millions)					-		-		-			-		-		-
														1				
Note: Subtotals or Totals i	n this Exhibit	P-5 may no	ot be exact o	or sum exactl	y due to rou	nding.												
	F	Prior Years	5		FY 2020		FY 2021		FY 2022 Base)	FY 202		022 OCO		FY 2022 Total		
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware - Advanced Precisi		, ,		(\$ 111)	(EdCII)	(3 1/1)	(\$ NI)	(EdCII)	(\$ 101)	(\$ 111)	(Each)	(\$ 101)	(3 1/1)	(Each)	(\$ 141)	(3 1/1)	(Each)	(3 1/1)
Recurring Cost																		
Guidance Section	-	-	-	0.022	5,826	126.016	0.023	1,020	23.422	0.024	512	12.272	-	-	0.000	0.024	512	12.272
(HA07) ROCKET MOTOR MK-66	-	-	-	0.001	65,000	58.237	0.001	85	0.074	0.001	15,802	13.579	-	-	-	0.001	15,802	13.579
(HA91) LAU-131A/A ROCKET LAUNCHER	-	-	-	0.007	250	1.676	0.008	250	1.925	0.010	250	2.515	-	-	-	0.010	250	2.51
Warhead M151	-	-	-	0.000	10,125	3.000	0.001	2,800	1.493	0.001	2,750	1.500	-	-	-	0.001	2,750	1.500
Warhead M282	-	-	-	0.003	5,517	14.269	0.003	1,146	2.996	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Recurring Cost	-	-	-	-	-	203.198	-	-	29.911	-	-	29.866	-	-	0.000	-	-	29.86
Subtotal: Hardware - Advanced Precision Kill Weapon System (APKWS) Cost	-	-	-	-	-	203.198	-	-	29.911	-	-	29.866	-	-	0.000	-	-	29.86
Support - APKWS Cost			-															
PMA Other Government Costs	-	-	-	-	-	4.730	-	-	2.039	-	-	1.734	-	-	-	-	-	1.734
Subtotal: Support - APKWS Cost	-	-	-	-	-	4.730	-	-	2.039	-	-	1.734	-	-	-	-	-	1.734
									31.950			31.600			0.000			

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Exhibit P-40, Budget Line Item	Justificatio	n: PB 2022	Air Force							Date: N	lay 2021		
Appropriation / Budget Activity 3011F: Procurement of Ammunitic				/ BSA 12:		1	Line Item No 10 / Cartrido		tle:				
Cartridges													
ID Code (A=Service Ready, B=Not Service Ready):	A		Program Ele	ments for Coo	le B Ite	ems: N	/A		Other Relate	ed Program El	lements: N/A		
Line Item MDAP/MAIS Code: N/A		1	1						1	1	1	1	
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base		2022 CO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-		-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	193.048	157.799	169.163		-	169.163	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-		-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	193.048	157.799	169.163		-	169.163	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-		-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	193.048	157.799	169.163		-	169.163	-	-	-	-	-	-
(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	e corres	sponding	g budget request	s are document	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-		-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-		-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-		-	-	-	-	-	-	-	-
-FY2021 funding totals include \$40.434M -FY2022 funding totals include \$40.741M The following Weapon System Cost Elem IMPULSE CARTRIDGES: -BBU-35 Impulse Cartridge (MG62): Depl MJU-75, etc. countermeasure flares and F -BBU-36 Impulse Cartridge (MG11): Depl	requested for ents are repre oys counterme RR170 and RF	Direct War an esented in this easure chaff an R188 chaff.	d/or Enduring P-1 line: nd ignites flare	Requirements.			·						73,
-BBU-46 Impulse Cartridge (MT40): Deplo	oys a MJU-23	countermeasu	ire flare on the	B-1.									
-BBU-48 Impulse Cartridge (SS27): Deplo	oys counterme	asure chaff on	multiple aircra	aft to protect ai	rcraft fr	om rad	lar and radar g	uided weapon	is. Chaff applic	ations include	: RR-180 and	RR-196.	
-BBU-59 Impulse Cartridge (WD01): Depl	oys a MJU-39	countermeasu	ure flare on the	e F-22.									
-BBU-63 Impulse Cartridge (SS44): Bomb	ejection cartr	idge used with	the BRU-44 b	omb rack on th	ne B-2.								
-ARD 446 Impulse Cartridge (WB33): We	apon and stor	e release cartr	idge.										
-ARD 863 Impulse Cartridge (M189): Wea	apon and store	e release cartri	dge.										
					••••								

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force		Date : May 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition		P-1 Line Item Number / Title: 352010 / Cartridges					
Cartridges							
	ements for Code B Ite	ms: N/A	Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A -RR-170 Chaff (LY07): RF countermeasure; dispensed by BBU-35							
-RR-170 Chail (LY07). RF countermeasure, dispensed by BBU-35 -RR-180 Chaff (SY16): RF countermeasure; dispensed by BBU-48							
-RR-188 Chaff (3W37): RF countermeasure; dispensed by BBU-35							
-RR-196 Chaff (CY94): RF countermeasure; dispensed by BBU-48							
-RR-196(T-1) Chaff (NY02): RF countermeasure; dispensed by BBU-48							
-RR-198/AL: F-35 operational chaff round dispensed by CCU-145. Procurement wil		-	cle.				
-RR-199: F-35 training chaff round dispensed by CCU-145. Procurement will be three	rough a Navy managed	l contract vehicle.					
-CCU-106: Government-owned weapon and stores release cartridge. This cartridge managed contract vehicle.	e will replace the propri	ietary ARD 446 cartri	dge over the next several years. Procurement will be through an Air Force				
-CCU-107 (MT95): Government-owned weapon and stores release cartridge. This of Procurement will be through a Navy managed contract vehicle.	cartridge is currently us	sed on the KC-46 and	d will replace the proprietary ARD 863 cartridge over the next several years.				
-CCU-136 (WA83): Deploys towed decoy; used with AN/ALE-70(V)1							
-CCU-145 (WB24): Deploys countermeasure flares from F-35. Applicable to MJU-68	8 and MJU-71						
-CCU-41 (MF60): Deploys towed decoy for F-15 and B-1; used with ALE-50							
-CCU-167 (DWGY): Cutter cart for steel hoist cables on helicopters and various tow	ved targets on multiple	aircraft					
-MK2 (M190): Weapons and pylons release cartridge; tanks and special equipment	t; cutter cartridge.						
-MK 107 MOD 1 (M943): Used on rotary launcher for B-1, MXU-611 Fuel Tank Rele	ease mechanism and L	AU-93A Phoenix Mis	sile Launcher				
-M21 (M500): Parachute reefing line cutter on C-17							
MEDIUM CALIBER AMMO: -25MM Target Practice (TP), PGU-23/U (A978): 25MM PGU-23 is a target practice combat round used to limit collateral damage potential. Air Force procures PGU-23							
-25MM Dummy Rounds, PGU-24 (A968 is a dummy round that provides gun system procures PGU-24 through Single Manager for Conventional Ammunition (SMCA), D			e GAU-12/A gun system applicable to the F-35 and AC-130U aircraft. Air Force				

Exhibit P-40, Budget Line Item Justification: PB 2022	2 Air Force	Date: May 2021						
Appropriation / Budget Activity / Budget Sub Activity 3011F: Procurement of Ammunition, Air Force / BA 01: A		P-1 Line Item Number / Title: 352010 / Cartridges						
Cartridges	1							
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B It	ems: N/A	Other Related Program Elements: N/A					
Line Item MDAP/MAIS Code: N/A	Line Item MDAP/MAIS Code: N/A							
-20MM PGU-28A/B (AA22): Primary combat round, high explosive incendiary used with the M61 gun system applicable to the F-15 and F-16 aircraft. Designed for use against air-to-air and air-to-ground targets. Both the Air Force and Navy use this ammunition for combat only. Air Force procures 20MM through the Single Manager for Conventional Ammunition (SMCA), Department of the Army and engineering support from the Navy.								
fuze. The projectile is a solid slug sized to match the ballistics of the z to complement the PGU-28 high explosive incendiary combat round a	-20MM TP Round PGU-27A/B (AA24): This round is used for air-to-air and air-to-ground training in the M61 aircraft gun on F-15, F-16 and F-22A aircraft. The cartridge is electrically primed and has no fuze. The projectile is a solid slug sized to match the ballistics of the 20MM combat round. 20MM is the primary ammunition used in Air Force and Navy aircraft gun systems to provide a training capability to complement the PGU-28 high explosive incendiary combat round and ensure training is consistent with combat operations. Air Force procures 20MM through the Army Single Manager for Conventional Ammunition (SMCA), Department of the Army and engineering support from the Navy.							
-20MM PGU-39 (A931): PGU-39 is a dummy round that provides gur procures 20MM through Single Manager for Conventional Ammunition			utilized to verify weapon system readiness for the M61 gun system. Air Force om the Navy.					
	-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 30MM from the Single Manager for Conventional Ammunition (SMCA), Department of the Army.							
-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 30MM from the Single Manager for Conventional Ammunition (SMCA), Department of the Army.								
-30MM Combat Mix (AC56) (Formerly B103) consists of two Armor Pi aircraft. Combat Mix is a primary combat ammunition for the A-10. T			cendiary (PGU-13) round and is employed on the GAU-8 cannon on the A-10 onal Ammunition(SMCA).					
-30MM Urban Mix (AC29) consists of two High Explosive Incendiary ((lower collateral damage) combat ammunition for the A-10. The AF p			ployed on the GAU-8 cannon on the A-10 aircraft. Urban Mix is an alternate munition(SMCA).					
-25MM PGU-48/B (AB98): 25MM PGU-48/B (formerly Frangible Armo	or Piercing (FAP)) round to be used	in GAU-22 gun on F-35/JSI	F. Air Force procures PGU-48/B through Hill AFB Contracting.					
SMALL CALIBER/GROUND MUNITIONS:								
Funds may also be used to evaluate commercial off the shelf (COTS)	/or government off the shelf (GOTS)) products as a suitable rep	lacement or enhancement to current capabilities.					
-7.62MM Ball Linked M80 (A143): The M240 Machine Gun requires t Ammunition (SMCA), Department of the Army.	this linked round, used against perso	onnel and unarmored targe	ts. Air Force procures this item through the Single Manager for Conventional					
-5.56MM Blue Marking Cartridge (AC39): This round is used in force- through the Single Manager for Conventional Ammunition (SMCA), D		6A2 and M4 rifles. It consi	sts of a plastic projectile in a brass cartridge case. Air Force procures this item					
		•	s cartridge case. These cartridges are more environmentally friendly than he 5.56MM frangible cartridges are used in M16-series rifles, which include M4					

Exhibit P-40, Budget Line Item Justification: PB 2022	2 Air Force	Date: May 2021				
Appropriation / Budget Activity / Budget Sub Activity		P-1 Line Item Number / Title:				
3011F: Procurement of Ammunition, Air Force / BA 01: A	Ammunition / BSA 12:	352010 / Cartr	idges			
Cartridges						
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B It	ems: N/A	Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A						
-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.						
-Items Less Than Five Million Dollars: All items have an annual procu	urement of less than 5,000,000 and	are Code A.				
These funds may also procure inventoried items which may not be pro as actual and planned expenditures will be addressed during execution		d be required on an	emerging basis. Variations to cover critical shortfalls to inventory objectives as well			
Funds may be used to address production Diminishing Manufacturing include electronic components used commercially and in short supply			ues through studies, bridge buys, life of type buys, supplier/parts replacement, to on capabilities and capacities.			
In accordance with Section 1815 of the FY 2008 National Defense Au defense missions, domestic emergency responses, and providing mili		item is necessary fo	r use by the active and reserve components of the Armed Forces for homeland			
Funding for this exhibit contained in PEs: 0207580F, 0207599F, 0208	8015F and 0208030F.					

Exhib	Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force Date: May 2021									
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 12:				P-1 Line Item Number / Title: 352010 / Cartridges						
	Cartridges					NI/A	Oth an F			
-	e (A=Service Ready, B=Not Service Ready): A	Pro	ograr	n Eleme	ents for Code B Iten	ns: N/A	Other F	Related Program Ele	ments: N/A	
Line Item MDAP/MAIS Code: N/A										
	Exhibits Schedule	1			Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	IMPULSE CARTRIDGES				- / -	- / 26.660	- / 20.618	- / 26.483	- / -	- / 26.483
P-40a	Small Cal/Ground Munitions				- / -	- / 42.177	- / 54.070	- / 58.598	- / -	- / 58.598
P-40a	Medium Cal Ammo				- / -	- / 124.211	- / 83.111	- / 84.082	- / 0.000	- / 84.082
P-40	Total Gross/Weapon System Cost				- / -	- / 193.048	- / 157.799	- / 169.163	- / -	- / 169.163
*Title re	presents 1) the Number / Title for Items; 2) the Number / Title [[DODIC] for An	nmuni	tion; and/	or 3) the Number / Title	(Modification Type) for M	Iodifications. Title repres	sents the P-40a Title wh	en only the P-40a Summ	nary/Total is shown.
Note: To	tals in this Exhibit P-40 set may not be exact or sum exactly du	le to rounding								
FY2022 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, as well as certain impulse cartridges needed to eject weapons stores from bomb racks and instigate aircraft countermeasures. FY2022 funding totals include \$40.741M requested for Direct War and/or Enduring Requirements. 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: -200MM PGU-28 (AA22): This procurement will fulfill WRM requirements. Current stockpile inventory is 27% of total inventory objective and has low combat use200MM PGU-27 (AA24): Procurements will support replenishments for expenditures used in pilot training and proficiency200MM PGU-39 (A931): Procurement is necessary to replenish aging stockpiles of dummy ammunition rounds. Rounds are critical in providing gun system training and troubleshooting , and to verify weapon system readiness. Current inventory is severely aged (30+ years).										
-30MN	I PGU-15 (B116): This procurement is critical to repleni	sh WRM sto	ckpil	es to su	pport pilot training an	nd proficiency. Curren	t stockpile inventory i	is 41% of total invente	ory objective.	
	I PGU-13 (B104): This procurement is critical to replen ement levels.	ish WRM st	ockpi	les to su	pport. Current stock	pile inventory is 31%	of total inventory obje	ective and current exp	penditures meet or ex	ceed previous
-30MN	Combat Mix (AC56): NO PROCUREMENT ACTION I	S PENDING								
-30MN	I Urban Mix (AC29): NO PROCUREMENT ACTION IS	PENDING								
-25MN	I PGU-48/B (AB98): Procurement will fulfill WRM requir	ements. Cu	irrent	stockpil	e inventory is 74% o	f total inventory object	tive.			
-25MN	IPGU-23 (A978): No procurement action is pending.									
-25MN	I PGU-24 (A968): No procurement action is pending.									

Exhibit P-40, Budget Line Item Justification: PB 2022	Air Force	Date: May 2021					
Appropriation / Budget Activity / Budget Sub Activity		P-1 Line Item Number / Title:					
3011F: Procurement of Ammunition, Air Force / BA 01: A	Ammunition / BSA 12:	352010 / Cartr	idges				
Cartridges	Due unem Elemente feu Cede D II						
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B It	ems: N/A	Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A							
-20MM PGU-39 Dummy (A931: Procurement is critical to replenish aging stockpiles of dummy ammunition rounds. Rounds are critical in providing gun system training, troubleshooting, and to verify weapon system readiness. Current inventory is severely aged (30+ years).							
IMPULSE CARTRIDGES: - BBU-35A/B IMPULSE CARTRIDGE (MG62): This procurement is critical to replenish WRM stockpiles/requirements. Approximately 1.5M assets are expended annually and 52K assets in the current stockpile are projected to expire by the end of FY22 if unused. Current stockpile inventory is 62% of the total inventory objective requirement. Air Force procures BBU-35 using a 5 year Indefinite Delivery Indefinite Quality (IDIQ) contract, which was awarded in June 2016. The most recent delivery order was awarded 16 September 2020 for a total of 2.2M cartridges for \$4.9M. Items are to be delivered by 16 September 2021. The next 5 year IDIQ is projected to award by July 2021.							
are projected to expire by the end of FY22 if unused. Current stockpil	- BBU-36A/B IMPULSE CARTRIDGE (MG11): This procurement is critical to replenish WRM stockpiles/requirements. Approximately 270K assets are expended annually and no assets in the current stockpile are projected to expire by the end of FY22 if unused. Current stockpile inventory is 50% of the total inventory objective and this item is currently under a HAF Call. Air Force procures BBU-36 using a 5 year IDIQ contract, which was awarded in July 2016. The most recent delivery order was awarded 12 February 2020 for a total of 400K cartridges for \$1.6M. Items are to be delivered by 28 February 2021. The next 5 year IDIQ is projected to award by July 2021.						
- BBU-46A/B IMPULSE CARTRIDGE (MT40): NO PROCUREMENT A	ACTION IS PENDING						
- BBU-48A/B IMPULSE CARTRIDGE (SS27): This procurement is critical to replenish WRM stockpiles/requirements. Approximately 50K assets are expended annually and 528K assets in the current stockpile are projected to expire by the end of FY22 if unused. Current stockpile inventory is 36% of the total inventory objective requirement. Air Force procures BBU-48 using a 5 year Indefinite Delivery Indefinite Quality (IDIQ) contract, which was awarded in December 2016. The most recent delivery order was awarded 23 April 2019 for a total of 483K cartridges for \$4M. Items are to be delivered by 30 April 2020. The next 5 year IDIQ is projected to award by December 2021.							
- BBU-59/B IMPULSE CARTRIDGE (WD01): NO PROCUREMENT A	CTION IS PENDING						
projected to expire by the end of FY22 if unused. Current stockpile in	- BBU-63/B IMPULSE CARTRIDGE (SS44): This procurement is critical to replenish WRM stockpiles/requirements. Approximately 500 assets are expended annually and no assets in the current stockpile are projected to expire by the end of FY22 if unused. Current stockpile inventory is 100% of the total inventory objective requirement. The Air Force will procure BBU-63 through a new 5 year IDIQ projected to award by March 2021. The expected cost is \$676.90/each for a total of 2,955 cartridges delivered by February 2023. This cartridge is specific to the B-2 aircraft, and complex due to complexity of the design, deliveries are expected within four years.						
- ARD-446-1B IMPULSE CARTRIDGE (WB33): This procurement is critical to replenish WRM stockpiles/requirements. Approximately 45K assets are expended annually and no assets in the current stockpile are projected to expire by the end of FY22 if unused. Current stockpile inventory is 199% of the total inventory objective requirement. Air Force procures ARD-446 using a 3 year IDIQ contract, which was awarded in January 2020. The most recent delivery order was awarded 15 January 2020 for a total of 171K cartridges for \$1.6M. Items are to be delivered by 31 December 2021. Procurements are to support Aircrew stateside training requirements which are currently at risk.							
are projected to expire by the end of FY22 if unused. Current stockpil	e inventory is 183% of the total inve	entory objective requ	pproximately 82K assets are expended annually and no assets in the current stockpile uirement. Air Force procures ARD-863 using a 3 year IDIQ contract, which was livery order is anticipated to award in 2QFY21. The unit cost is \$9.26/each.				
projected to expire by the end of FY22 if unused. Current stockpile in	ventory is 107% of the total inventor	ry objective requirer	y 84 assets are expended annually and 87K assets in the current stockpile are nent. Air Force procures CCU-41 through a Navy IDIQ contract, which expires d by 28 February 2022. The unit cost was \$8.32/each and total spent was \$600K				

Exhibit P-40, Budget Line Item Justification: PB 2022	Date : May 2021						
Appropriation / Budget Activity / Budget Sub Activity 3011F: Procurement of Ammunition, Air Force / BA 01: A Cartridges		P-1 Line Item Number / Title: 352010 / Cartridges					
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B I	items: N/A	Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A			•				
- CCU-106 IMPULSE CARTRIDGE: NO PROCUREMENT ACTION IS PENDING							
- CCU-107 IMPULSE CARTRIDGE (MT95): This is a procurement of a new item to build the WRM stockpile. Air Force will procure CCU-107 through a Navy contract.							
- CCU-136A/A IMPULSE CARTRIDGE (WA83): NO PROCUREMEN	T ACTION IS PENDING						
- CCU-145/A IMPULSE CARTRIDGE (WB24): This procurement is to projected to expire by the end of FY22 if unused. Current stockpile in delivery order was awarded 24 February 2020 for a total of 400K carts	iventory is 171% of the total inventor	ory objective requirement. Air Force	procures CCU-145 through a Navy IDIQ contract. The most recent				
- CCU-167 IMPULSE CARTRIDGE (DWGY): This procurement is to r	replace the MK23 cutter cartridge w	vith the updated CCU-167.					
- MK2 (M190): NO PROCUREMENT ACTION IS PENDING							
- MK-107 MOD 1 (M943): This procurement is to replenish critical WRM stockpiles/requirements. Approximately 1300 assets are expended annually and 8K assets in the current stockpile are projected to expire by the end of FY22 if unused. Current stockpile inventory is 147% of the total inventory objective requirement. Air Force procures MK-107 through a Navy IDIQ contract. The most recent delivery order was awarded 12 August 2020 for a total of 2940 chaff cartridges to be delivered by 26 October 2021. The unit cost was \$285.00/each and total spent was \$800K.							
- M21 (M600): NO PROCUREMENT ACTION IS PENDING							
- RR-170 CHAFF (LY07): NO PROCUREMENT ACTION IS PENDING	G						
- RR-180 CHAFF (SY16): This procurement is critical to replenish WRM stockpiles/requirements. Approximately 19K assets are expended annually and 29K assets in the current stockpile are projected to expire by the end of FY22 if unused. Current stockpile inventory is 44% of the total inventory objective requirement. Air Force procures RR-180 through a Navy IDIQ contract, which expires in December 2020. The most recent delivery order was awarded 13 April 2020 for a total of 315K chaff cartridges to be delivered by 30 July 2023. The unit cost was \$11.11/each and total spent was \$3.5M. The next 5 year IDIQ contract is projected to award in January 2021.							
- RR-188 CHAFF (3W37): This procurement is critical to replenish WRM stockpiles/requirements. Approximately 600K assets are expended annually and no assets in the current stockpile are projected to expire by the end of FY22 if unused. Current stockpile inventory is 165% of the total inventory objective requirement. Air Force procures RR-188 through a Navy IDIQ contract, which expires in December 2020. The most recent delivery order was awarded 13 April 2020 for a total of 449K chaff cartridges to be delivered by 30 April 2023. The unit cost was \$4.45/each and total spent was \$2M. The next 5 year IDIQ contract is projected to award in January 2021.							
- RR-196A/L (CY94): NO PROCUREMENT ACTION IS PENDING							
- RR-196(T-1)AL (NY02): This procurement is critical to replenish WR by the end of FY22 if unused. Current stockpile inventory is 152% of The most recent delivery order was awarded 21 April 2020 for a total contract is projected to award in January 2021.	the total inventory objective require	ement. Air Force procures RR-196(T	1) through a Navy IDIQ contract, which expires in December 2020.				
- RR-198AL: This is a procurement of a new item to build the WRM st	tockpile. Air Force will procure RR-	-198AL through a Navy IDIQ contrac	t scheduled to award 30 June 2021.				

Exhibit P-40, Budget Line Item Justification: PB 202	Date: May 2021						
Appropriation / Budget Activity / Budget Sub Activit		P-1 Line Item Number / Title:					
3011F: Procurement of Ammunition, Air Force / BA 01: Cartridges	Ammunition / BSA 12:	352010 / Cartrido	ges				
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B I	tems: N/A	Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A							
- RR-199: This is a procurement of a new item to build the WRM stockpile. Air Force will procure RR-198AL through a Navy IDIQ contract scheduled to award 30 June 2021.							
SMALL CALIBER/GROUND MUNITIONS:							
See SMALL CAL/GROUND MUNITIONS P-40a							

Exhibit P-40a, I Appropriation / 3011F / 01 / 12		-					F	P-1 Line	Item Nu Cartridg	mber / T	Title:				A	ate: May ggregat //PULSE	ed Item	IS Title: RIDGES		
			P	rior Year	s		FY 2020			FY 2021		FY	2022 Bas	6e	F۱	(2022 OC	:0	FY	2022 Tot	al
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
mpulse Cartridges			(0)	(2001)	(0)	(0)	(2007)	(*)	(*)	(2000)	(0)	(*)	(2000)	(0)	(0)	(2001)	(\$ 11)	(0)	(2001)	(\$)
(MT40) BBU-46	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(WB33) ARD-446	A		-	-	-	0.000	107,990	1.000	0.000	106,951	1.000	0.000	158,730	1.500	-	-	-	0.000	158,730	1.50
(3W37) CHAFF, RR-188	A		-	-	-	0.000	674,119	3.000	0.000	446,717	2.006	0.000	385,463	1.750	-	-	-	0.000	385,463	1.750
(JN31) CU-168 SQUIB	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(M189) ARD-863	Α		-	-	-	0.000	83,752	0.500	0.000	165,837	1.000	0.000	164,204	1.000	-	-	-	0.000	164,204	1.000
(M943) MK107 IMPULSE CARTRIDGE	A		-	-	-	0.000	5,209	1.485	0.000	5,902	1.699	-	-	-	-	-	-	-	-	-
(MT95) CCU-107	A		-	-	-	0.000	1,148	0.006	0.000	19,192	0.096	-	-	-	-	-	-	-	-	-
(YWAP) RR-198	Α		-	-	-	0.000	773	0.197	0.000	5,231	1.334	0.000	6,000	1.530	-	-	-	0.000	6,000	1.530
(YWAQ) RR-199	Α		-	-	-	0.000	1,889	0.145	-	-	-	0.000	2,000	0.153	-	-	-	0.000	2,000	0.153
(MG11) CTG, IMPULSE, BBU-36/B	A		-	-	-	0.000	499,824	1.999	0.000	420,911	1.700	0.000	416,667	1.700	-	-	-	0.000	416,667	1.700
(MG62) BBU-35/ B IMPULSE CARTRIDGE	A		-	-	-	0.000	2,810,349	6.070	0.000	1,528,439	3.332	0.000	1,795,455	3.950	-	-	-	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	99,068	3.699	0.000	26,673	1.006	0.000	65,634	2.500	-	-	-	0.000	65,634	2.500
(SS-27) BBU-48/ B IMPULSE CARTRIDGE	A		-	-	-	-	-	-	-	-	-	0.000	545,024	4.600	-	-	-	0.000	545,024	4.600
(SS44) BBU63/ B IMPULSE CARTRIDGE	A		-	-	-	-	-	-	0.001	3,193	1.999	0.001	3,162	2.000	-	-	-	0.001	3,162	2.000
(LY07) RR-170 CHAFF CARTRIDGE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(SY16) RR-180 CHAFF CARTRIDGE	A		-	-	-	0.000	315,000	3.500	0.000	285,722	3.206	0.000	308,914	3.500	-	-	-	0.000	308,914	3.500
(MF60) CCU-41	Α		-	-	-	0.000	18,659	0.093	0.000	60,000	0.300	0.000	60,000	0.300	-	-	-	0.000	60,000	0.300
(M190) MK-2	А		-	-	-	0.001	1,043	0.939	0.001	7	0.006	-	-	-	-	-	-	-	-	-
(WB24) CCU-145	Α		-	-	-	0.000	166,165	0.804	0.000	395,499	1.934	0.000	404,858	2.000	-	-	-	0.000	404,858	2.000
Items less than 5 M	Α		-	-	-	-	-	3.009	-	-	-	-	-	-	-	-	-	-	-	-
(DWGY) CCU-167/B	Α		-	-	-	0.000	21,440	0.214	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Impulse Cartric	lges		-	-	-	-	-	26.660	-	-	20.618	-	-	26.483	-	-	-	-	-	26.48
otal				-	-	-	-	26.660	-	-	20.618	-	-	26.483	-	-	-	-	-	26.483

Exhibit P-40a, I Appropriation / 3011F / 01 / 12		-					F	P-1 Line	Item Nu Cartridg	mber / '	Title:				A	ate: May ggregat mall Cal	ed Item	is Title: I Munitior	ns	
			F	Prior Year	s		FY 2020			FY 2021		F۱	(2022 Ba	se	F۱	(2022 OC	:0	F۱	2022 Tot	al
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
AMMUNITION CARTRIDG	ES														<u> </u>			<u> </u>		
(A014) CTG, 12 GA SHOTGUN, 7-1//2 PLASTIC	A		-	-	-	-	-	-	-	-	-	0.000	14,634	0.012	-	-	-	0.000	14,634	0.01
(A011) CTG 12 GAUGE NO. 00 BUCKSHOT	A		-	-	-	0.000	67,567	0.050	0.000	80,645	0.050	0.000	80,645	0.050	-	-	-	0.000	80,645	0.05
(A017) CTG, 12 GA BUCKSHOT	A		-	-	-	0.000	223,999	0.056	0.000	71,429	0.025	0.000	71,429	0.025	-	-	-	0.000	71,429	0.02
(A062) CTG, 5.56MM BALL M855 LINKED	A		-	-	-	0.000	1,418,919	1.050	0.000	1,630,435	0.750	-	-	0.000	-	-	-	-	-	0.00
(A059) 5.56 BALL M855 CLIPPED	A		-	-	-	0.000	3,284,072	1.000	-	-	-	-	-	0.000	-	-	-	-	-	0.00
(A080) CTG, 5.56MM BLANK M200	А		-	-	-	-	-	-	0.000	434,782	0.100	0.000	434,783	0.100	-	-	-	0.000	434,783	0.10
(A091) CTG, .22 CAL LONG RIFLE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A131) CTG, 7.62MM BALL 4-1 LINKED	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A143) 7.62MM BALL LINKED (M80)	A		-	-	-	0.000	535,713	0.300	0.000	365,854	0.300	0.000	4,634,146	3.800	-	-	-	0.000	4,634,146	3.80
(A164) CTG, 7.62MM LINKED	A		-	-	-	0.000	1,104,851	0.597	-	-	-	-	-	0.000	-	-	-	-	-	0.00
(A246) CTG, .30 CAL BALL BULK	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A165) CARTRIDGE 7.62MM M80	A		-	-	-	0.000	999,999	0.550	-	-	-	0.000	7,246,377	5.000	-	-	-	0.000	7,246,377	5.00
(A257) CTG, 7.62MM 9-1 DIM TRACER	A		-	-	-	0.000	363,232	0.200	0.000	285,714	0.200	0.000	285,714	0.200	-	-	-	0.000	285,714	0.20
(A363) 9MM BALL NATO XM882 PISTOL	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(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	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A483) CTG CAL .45 BALL M1911 MTCHGRD	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Exhibit P-40a,	Buc	lget l	tem Jus	tificatio	n For A	ggregat	ed Iten	1s: PB 20	022 Air F	orce					D	ate: Ma	y 2021			
Appropriation 3011F / 01 / 12	Βι	Idget	Activity	/ / Budg	et Sub	Activity		P-1 Line 352010 /			Title:					ggregat mall Cal		i s Title: I Munitio	ns	
			P	rior Year	S		FY 2020			FY 2021		F۱	7 2022 Bas	se	F	Y 2022 OC	:0	F١	7 2022 Tot	al
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
(A552) CTG, .50 CAL BALL SINGLE ROUND, M33	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A555) CTG, CAL .50 BALL M2 LINKED	Α		-	-	-	0.000	1,232,227	2.600	0.000	769,149	2.000	0.000	961,538	2.500	-	-	-	0.000	961,538	2.500
(A557) CTG, CAL .50 BALL/TRACER/ LINKED M2/M9	A		-	-	-	0.000	1,249,999	2.750	0.000	985,524	2.750	0.000	1,218,638	3.400	-	-	-	0.000	1,218,638	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	316,455	2.500	0.000	59,311	0.599	0.000	59,406	0.600	-	-	-	0.000	59,406	0.600
(AA02) CTG 5.56MM AP/TR M995/M856 4-1	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AA03) CTG. 7.62 M993 AP	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AA04) CTG. 7.62MM 4 AP M9331/1TR M62 W/LK M13			-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AA11) CTG. 7.62 NATO M118 SPEC BALL	A		-	-	-	0.000	294,115	0.200	0.000	1,904,420	1.714	-	-	-	-	-	-	-	-	-
(AA16) 9 MILLIME CARTRIDGE FRANG	Α		-	-	-	0.000	7,147	3.500	0.000	2,999,715	3.000	0.000	6,000,000	6.000	-	-	-	0.000	6,000,000	6.000
(AA40) 5.56 FRANGIBLE	A		-	-	-	0.000	34,614,708	13.500	0.000	38,328,282	14.948	0.000	39,487,179	15.400	-	-	-	0.000	39,487,179	15.400
(AA51) 12 GA NON- LETHAL PT-CONT	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AA52) 12 GA NON- LETHAL CROWD	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AA53) CTG 5.56 SPECIAL MK262 MOD 1	A		-	-	-	-	-	-	0.000	2,500,000	1.000	0.000	1,052,632	0.400	-	-	-	0.000	1,052,632	0.400
(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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

xhibit P-40a, E ppropriation / 011F / 01 / 12							: 1	PB 20 P-1 Line 352010 /	Item Nu	mber /	Title:		_		A	ate: May ggregat mall Cal	ed Item	is Title: I Munitior	าร	
			P	rior Year	S		FY 2020			FY 2021		F۱	(2022 Bas	se	F	7 2022 OC	:0	F۱	2022 Tot	al
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(HA29) 66MM HIGH EXP LITE ANTI TANK WEAPON	A		-	-	-	-	-	-	0.004	1,870	6.912	-	-	-	-	-	-	-	-	
(C995) AT-4 84MM ROCKET	Α		-	-	-	-	-	-	0.003	1,587	4.455	-	-	-	-	-	-	-	-	
(AB16) 5.56 BLUE MARKING CARTRIDGE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(AB56) 5.56MM M855A1 LINKED LEAD FREE CART	A		-	-	-	0.000	4,054,054	1.500	0.000	2,884,615	1.500	0.000	2,884,615	1.500	-	-	-	0.000	2,884,615	1.5
(AB57) 5.56MM M855A1 CLIPPED, LEAD FREE	A		-	-	-	0.000	1,351,351	0.500	-	-	-	-	-	-	-	-	-	-	-	
(AB46) 5.56MM SINGLE ROUND DUMMY	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(AB47) 7.62MM DUMMY	Α		-	-	-	0.000	45,727	0.049	-	-	-	-	-	-	-	-	-	-	-	
(AB48) .50 CAL SINGLE DUMMY CART	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
(AB57) 5.56 M855A1 CLIPPED, LEAD FREE	A		-	-	-	-	-	-	0.000	1,041,600	0.500	0.000	1,041,667	0.500	-	-	-	0.000	1,041,667	0.5
(AB72) CTG, 7.62MM SINGLE ROUND BLANK (was A112)	A		-	-	-	-	-	-	0.000	237,804	0.200	0.000	190,476	0.160	-	-	-	0.000	190,476	0.1
(AB67) 5.56 MM PLASTIC	Α		-	-	-	0.000	262,120	0.349	-	-	-	-	-	-	-	-	-	-	-	
(AB73) 5.56 M856 A1 LEAD FREE	A		-	-	-	0.000	3,333,333	1.500	0.000	2,542,373	1.500	0.000	847,458	0.500	-	-	-	0.000	847,458	0.5
(AB74) 5.56 TRACER ROUND	A		-	-	-	0.000	103,093	0.100	0.000	64,103	0.100	0.000	64,103	0.100	-	-	-	0.000	64,103	0.1
(AB75) 5.56 LINKDED M855A1/M86A1	Α		-	-	-	-	-	-	0.000	114,000	0.114	0.000	500,000	0.500	-	-	-	0.000	500,000	0.5
(AC20) 9MM BALL	Α		-	-	-	0.000	16,666,666	3.000	0.000	15,787,082	3.000	0.000	31,431,579	5.972	-	-	-	0.000	31,431,579	5.9
(AC21) 9MM HOLLOW POINT	A		-	-	-	0.000	16,013	0.400	0.000	1,818,181	0.400	0.000	1,818,182	0.400	-	-	-	0.000	1,818,182	0.4
(AC36) 9MM BLUE MARKING CARTRIDGE	A		-	-	-	0.000	376,438	0.399	0.000	303,030	0.200	0.000	757,576	0.500	-	-	-	0.000	757,576	0.5

Exhibit P-40a, Appropriation 2 3011F / 01 / 12							P	-1 Line	Item Nu Cartridg	mber / '	Title:		_		Α	ate: May ggregat mall Cal	ed Item	is Title: Munitio	ns	
			P	rior Year	s		FY 2020			FY 2021		F۱	2022 Bas	se	F۱	(2022 OC	:0	F۱	7 2022 Tot	al
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
(AC37) 9MM RED MARKING CARTRIDGE	A		-	-	-	0.000	376,244	0.399	0.000	597,015	0.400	0.000	746,269	0.500	-	-	-	0.000	746,269	0.50
(AC39) 5.56 BLUE MARKING CARTRIDGE	A		-	-	-	-	-	-	0.000	394,737	0.300	0.000	4,605,263	3.500	-	-	-	0.000	4,605,263	3.50
(AC40) 5.56 RED MARKING CARTRIDGE	A		-	-	-	0.000	742,730	0.550	0.000	723,683	0.550	0.000	743,243	0.550	-	-	-	0.000	743,243	0.55
(AY04) CTG 12 GAGE BIRD SCARE	A		-	-	-	0.000	44,593	0.033	-	-	-	0.000	30,000	0.030	-	-	-	0.000	30,000	0.03
(AC42) 5.56 DYE MARKING ROUND BLUE LINKED	A		-	-	-	0.000	376,526	0.399	-	-	-	-	-	-	-	-	-	-	-	-
(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	2,564,101	2.000	0.000	2,000,000	2.000	-	-	-	0.000	2,000,000	2.000
(B584) 40MM CART LINKED	A		-	-	-	-	-	-	0.000	62,270	2.500	-	-	-	-	-	-	-	-	-
(B535) 40MM SWS M583	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(B542) 40 MIL CARTRIDGE HEDP	A		-	-	-	0.000	455	0.031	0.000	8,270	0.005	-	-	-	-	-	-	-	-	-
(B576) CTG, 40MM PRACTICE, LINKED, HIGH VELOCITY	A		-	-	-	0.000	58	0.001	-	-	-	-	-	-	-	-	-	-	-	-
AIR FORCE SHOOTING TEAM	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(BA21) 40MM PRACTICE, DAY/ NIGHT LINKED	A		-	-	-	0.000	250,000	4.000	0.000	125,000	2.000	0.000	125,000	2.000	-	-	-	0.000	125,000	2.000
(BA54) 40MM PRACTICE, DAY/ NIGHT LINKED	A		-	-	-	-	-	0.115	-	-	-	0.000	147,631	2.399	-	-	-	0.000	147,631	2.399
(LA51) SIMULATOR, SMALL ARMS FIRE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(LA52) SIMULATOR, SMALL ARMS FIRE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: AMMUNITION			-	-	-	-	-	42.177	-	-	54.070	-	-	58.598	-	-	-	-	-	58.598
otal		-	-	-	-	-	-	42.177	-	-	54.070	-	-	58.598	-	-	-	-	-	58.598

Exhibit P-40a, Budget Item Justification For Aggregated Ite	ems: PB 2022 Air Force	Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Aggregated Items Title:
3011F / 01 / 12	352010 / Cartridges	Small Cal/Ground Munitions

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.

Exhibit P-40a, E	Buc	lget l	Item Jus	tificatio	on For A	ggregat	ted Iter	ns: PB 2	022 Air F	orce					C	ate: Ma	y 2021			
Appropriation / 3011F / 01 / 12	Bu	udget	t Activity	/ Budg	jet Sub /	Activity		P-1 Line 352010 /			Title:					ggregat ledium C				
			P	rior Year	s		FY 202	0		FY 2021		F۱	Y 2022 Ba	se	F	Y 2022 OC	:0	F۱	Y 2022 Tot	al
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
ledium Cal															L · ·			1		
(A931) 20MM, PGU -29	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A968) PGU-24 DUMMY ROUND	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(A978) CTG, 25MM, TP (PGU-23/U)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AA22) 20MM, PGU-28 A/B Semi-AP, HEI	A		-	-	-	-	-	-	0.000	530,390	4.950	0.000	223,663	7.000	-	-	-	0.000	223,663	7.00
(AA11) 7.62MM, SP Ball M118	A		-	-	-	-	-	-	-	-	-	0.000	6,666	0.200	-	-	-	0.000	6,666	0.20
(AA24), 20MM, TP PGU-27 A/B	A		-	-	-	0.000	633,66	7 5.422	-	-	-	0.000	457,296	6.393	-	-	-	0.000	457,296	6.39
(AA94) 30MM, PGU-15	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AB18) 30MM, PGU-13 D/B	Α		-	-	-	-	-	-	-	-	0.004	-	-	-	-	-	-	-	-	-
(AB98) 25MM PGU-48/B	A		-	-	-	-	-	-	0.000	97,054	20.002	0.000	97,054	14.400	-	-	-	0.000	97,054	14.40
(AC29) 30MM, URBAN MIX	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(AC56) COMBAT MIX 2:1	A		-	-	-	-	-	0.226	-	-	0.008	-	-	-	-	-	-	-	-	-
(B103) COMBAT MIX	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(B104) 30MM, PGU-13/B	A		-	-	-	0.000	1,376,68	1 46.003	0.000	650,000	20.788	0.000	971,599	13.000	-	-	-	0.000	971,599	13.00
(B116) 30MM PGU-15/B, TP	A		-	-	-	0.000	2,461,05	9 68.716	0.000	1,644,469	36.259	0.000	1,927,477	43.089	-	-	0.000	0.000	1,927,477	43.08
PMA	А		-	-	-	-	-	3.844	-	-	1.100	-	-	-	-	-	-	-	-	-
Subtotal: Medium Cal			-	-	-	-	-	124.211	-	-	83.111	-	-	84.082	-	-	0.000	-	-	84.08
otal			-	-	-	-	-	124.211	-	-	83.111	-	-	84.082	-	-	0.000	-	-	84.082

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

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Exhibit P-40, Budget Line Item	Justificatio	on: PB 2022	Air Force						Date: N	lay 2021		
Appropriation / Budget Activity 3011F: Procurement of Ammunition Bombs	-	-		/ BSA 13:		L ine Item N 010 / Practic		tle:				
ID Code (A=Service Ready, B=Not Service Ready):	A		Program Ele	ments for Co	de B Items: N	I/A		Other Relate	d Program El	ements: N/A		
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	29.313	34.313	48.745	-	48.745	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	29.313	34.313	48.745	-	48.745	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	29.313	34.313	48.745	-	48.745	-	-	-	-	-	-
(The following	g Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request	s are document	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Description:		``````````````````````````````````````		·			×		·			

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-117general 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.

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.

Exhibit P-40, Budget Line Item Justification: PB 202	2 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activit 3011F: Procurement of Ammunition, Air Force / BA 01: Bombs		P-1 Line Item Number / 1 353010 / Practice Bombs	Fitle:
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B I	tems: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A			
	ilitary support to civil authorities. rocured on an annual basis and cou	ld be required on an emerging bas	ctive and reserve components of the Armed Forces for homeland is. Variations to cover critical shortfalls to inventory objectives as well //B, MK-84 Inert, BDU-33, MK4 Mod 3 Signal Cartridge, and CXU-3A/B
Funding for this exhibit contained in PE 0207599F.			

Exhib	it P-40, Budget Line Item Justification: Pl	B 2022 Ai	ir Fo	rce					Date: Ma	ay 2021				
	priation / Budget Activity / Budget Sub A : Procurement of Ammunition, Air Force / B		mun	ition / E		P-1 Line Item Nu 353010 / Practice		le:	·					
ID Code	e (A=Service Ready, B=Not Service Ready): A	Pre	rograr	n Eleme	ents for Code B Ite	ms: N/A		Other Re	lated Program Ele	ments: N/A				
Line Ite	ine Item MDAP/MAIS Code: N/A													
	Exhibits Schedule				Prior Years	FY 2020	FY 202	21	FY 2022 Base	FY 2022 OCO	FY 2022 Total			
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / To (Each) / (-		Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)			
P-40a	Practice Bombs				- / -	- / 29.313	- / 34.	313	- / 48.745	- / -	- / 48.745			
P-40	Total Gross/Weapon System Cost				- / -	- / 29.313	- / 34.	313	- / 48.745	- / -	- / 48.745			
*Title rep	resents 1) the Number / Title for Items; 2) the Number / Title [[DODIC] for An	mmuni	tion; and/	or 3) the Number / Title	e (Modification Type) for M	Iodifications. T	itle represe	nts the P-40a Title who	en only the P-40a Summ	nary/Total is shown.			
Note: Tot	als in this Exhibit P-40 set may not be exact or sum exactly du	ue to rounding	g.											
Justific	cation:													

The USAF Practice Bombs budget has been consistently underfunded to replenish annual expenditures and to be able to support HAF/A4 training requirements. The FY2022 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 CSU-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.

Funding below the levels in the FY2022 budget submission will also bring instability to Allied Mechanical Wisconsin, which has been underfunded for years, has experienced single-year fluctuations in investments, and struggled through an unprecedented COVID-19 environment. In order to replenish the approximately 15,000 BDU-50s expended annually, AMW employs a single shift throughout the calendar year. Budget reductions will drive a reduction in workforce and potential viability of this sole source supplier. The USAF invested in AMW over three years to establish a manufacturing line for the BDU-50. Currently, the BDU-50 is the only product AMW produces.

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.

Appropriation 3011F / 01 / 13		Idget	Activity	/ Budg	et Sub	Activity:			Item Nu Practice		Fitle:					Aggregat Practice B		s Title:		
			P	rior Years	5		FY 2020			FY 2021		FY	2022 Bas	e	F	Y 2022 OC	0	FY	2022 Tot	al
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cos (\$ M)	t Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Incategorized																			·	
(ED96) BDU-56D/B	A		-	-	-	0.002	11,684	17.536	0.006	2,578	15.947	0.006	1,617	10.000	-	-	-	0.006	1,617	10.00
(E756) BDU-50/B	Α		-	-	-	0.002	7,734	11.777	0.002	6,276	15.085	0.002	13,935	33.500	-	-	-	0.002	13,935	33.50
(F262) MK84 INERT PRAC BOMB	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(E969) BDU-33	Α		-	-	-	-	-	-	0.000	16,900	1.521	0.000	36,056	3.245	-	-	-	0.000	36,056	3.24
(F562) MK4 Mod 3, Signal Cartridge	Α		-	-	-	-	-	-	0.001	1,497	1.497	0.001	1,000	1.000	-	-	-	0.001	1,000	1.00
(F470) CXU-3A/B, Signal Cartridge	Α		-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.00
FDT	Α		-	-	-	-	-	-	-	-	0.263	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized	1		-	-	-	-	-	29.313	-	-	34.313	-	-	48.745	-	-	-	-	-	48.74
ſotal			-	-	-	-	-	29.313	-	-	34.313	-	-	48.745	-	-	-		-	48.74

LI 353010 - Practice Bombs Air Force

Exhibit P-40, Budget Line Item	Justificatio	n: PB 2022	Air Force						Date: N	lay 2021		
Appropriation / Budget Activity 3011F: Procurement of Ammunitio Bombs	-			/ BSA 13:		Line Item N 020 / Genera						
ID Code (A=Service Ready, B=Not Service Ready):	A		Program Ele	ments for Co	de B Items:	N/A		Other Relate	d Program El	ements: N/A		
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	621.732	369.566	176.565	-	176.565	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	621.732	369.566	176.565	-	176.565	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	621.732	369.566	176.565	-	176.565	-	-	-	-	-	-
(The following	g Resource Sum	mary rows are fo	or informational p	ourposes only. Th	ne correspondi	ng budget request	s are document	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

-FY2020 funding totals include \$545.309M appropriated for Overseas Contingency Operations.

-FY2021 funding totals include \$369.566M appropriated for Overseas Contingency Operations.

-FY2022 funding totals include \$169.590M requested for Direct War and/or Enduring Requirements.

-FY2022 funding request was reduced by \$40.453M to account for the availability of prior year execution balances.

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

Exhibit P-40, Budget Line Item Justification:	PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sul 3011F: Procurement of Ammunition, Air Force / Bombs		P-1 Line Item N 353020 / Genera	umber / Title: I 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			
proximity, instantaneous, or delayed fuzes to provide a var variant.	riety of military effects. This item is procured	through the Army Single	Manager for Conventional Ammunition (SMCA). The MK-84 is a tritonal-filled
	nodes with ground burst, delayed, or air burst	fuzes, and as precision-	slender body designed for improved ballistics. It can be employed as a general guided munitions (GBU-12,-38, or -54) and aerial mines depending on the fin/airfoil
			uctures. The warhead is used on the GBU-10, 24, and 27 as well as Joint Direct Ammunition (SMCA). Variants are filled with tritonal or with a more Insensitive
			actures and is compatible with the JDAM guidance tail kit. The BLU-137/B is an sets. Procurement started in FY18 at Eglin AFB (AFLCMC/EBD) and is forecast to
- BLU-129/B Composite Case Warhead - Carbon fiber cor	nposite case for high near-field lethality to de	liver 3x reduction in colla	teral damage.
		, , ,	unnels and bunkers. With enhanced survivability, increased lethality, smart fuzing ons required to achieve a kill at lower AUR cost. A5K will replace the GBU-28 and
- MK-81 is a 250lb class general purpose bomb. The boml Ammunition (SMCA).	o is designed for soft, fragment sensitive targ	ets, such as troops, POL	, and radars. The item is procured through Army Single Manager for Conventional
a height of burst sensor. The BLU-134/B, Improved Lethal materiel targets. The unitary warhead meets DoD policy of	ity Warhead (ILŴ), Next Generation Area Att n cluster munitions. Currently EBH is pursuin procure the Tritonal variant. The BLU-136/B,	ack Weapon Increment I g a Tritonal filled version Next Generation Area A	cluster munitions. It consists of the BLU-134/B and BLU-136/B warheads with , is a 500lb area attack warhead with improved lethality against personnel and of the BLU-134. If Tritonal is qualified for use and Program Office secures an ttack Weapon Increment II, is a 2,000lb, high fragmentation area attack warhead ts DoD policy on cluster munitions.
	o determine viability of a machined lug vs. the uses. If machined lugs prove to be a suitable	e current forged lug. Forg	f FY23 funding will be used to procure Machined Bomb Suspension Lugs for EBH red lugs have proven to be extremely difficult to manufacture and has experienced Y23
Portion of FY20-FY24 funding will be used for facilitization explosive fills.	efforts. This will enhance production line cap	pacity required to replenis	sh inventory, accommodate large caliber warheads, and provide for alternative
Funds may be used to address production Diminishing Ma include electronic components used commercially and in s			through studies, bridge buys, life of type buys, supplier/parts replacement, to capabilities and capacities.

Exhibit P-40, Budget Line Item Justification: PB 2022	2 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activity		P-1 Line Item Number	
3011F: Procurement of Ammunition, Air Force / BA 01: /	Ammunition / BSA 13:	353020 / General Purpo	se Bombs
Bombs	1		1
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B It	ems: 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 Au defense missions, domestic emergency responses, and providing mil		tem is necessary for use by the	active and reserve components of the Armed Forces for homeland
These funds may also procure inventoried items which may not be pro- as actual and planned expenditures will be addressed during execution		d be required on an emerging b	asis. Variations to cover critical shortfalls to inventory objectives as well
Funding for this exhibit contained in PEs: 0208030F, 0207599F.			

Exhib	it P-40, Budget Line Item Justification: P	B 2022 Aiı	r Foi	се				Date: Ma	ay 2021	
	priation / Budget Activity / Budget Sub / : Procurement of Ammunition, Air Force / B s		nuni	tion / E	3SA 13:	P-1 Line Item Nu 353020 / General				
ID Cod	e (A=Service Ready, B=Not Service Ready): A	Pro	ogran	n Eleme	ents for Code B Ite	ems: N/A	Other F	Related Program Ele	ments: N/A	
Line Ite	m MDAP/MAIS Code: N/A									
	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)
P-40a	(E466) MK-81, 250LB GP BOMB, TRITONAL				- / 0.000	- / 9.268	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	(EC32) MXU-650 GCG, FIN ASSEMBLY				- / -	- / 14.797	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	500LB GP Bomb Variants				- / -	- / 198.504	- / 99.871	- / 51.816	- / -	- / 51.816
P-40a	2000LB Hard Target Penetrator Variants				- / -	- / 85.024	- / 70.590	- / 33.600	- / -	- / 33.600
P-40a	(ED58) MAU-209C/B CCG				- / -	- / 28.820	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a	2000lbs GP Bombs Variants				- / -	- / 149.821	- / 135.944	- / 0.000	- / -	- / 0.000
P-40a	A5K (GBU-72)				- / -	- / -	- / -	- / 36.000	- / -	- / 36.000
P-40a	BLU-134/B CDI 500LB				- / -	- / 41.000	- / -	- / -	- / -	- / -
P-40a	BLU-136/B 2000LB GP BOMB				- / 0.000	- / 22.683	- / 34.548	- / 43.189	- / -	- / 43.189
P-40a	GENERAL PURPOSE BOMBS (ITEMS LESS THAN \$5 MILLION)				- / -	- / 71.815	- / 28.613	- / 11.960	- / -	- / 11.960
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 621.732	- / 369.566	- / 176.565	- / -	- / 176.565
*Title rep	resents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Am	munit	ion; and/	or 3) the Number / Titl	e (Modification Type) for N	Nodifications. Title repre	sents the P-40a Title wh	en only the P-40a Sumr	nary/Total is shown.
Note: To	tals in this Exhibit P-40 set may not be exact or sum exactly d	ue to rounding.								
This pr	cation: ogram, General Purpose Bombs P-40A Category Unc									

FY2022 funding totals include \$169.590M requested for Direct War and/or Enduring Requirements. FY2022 funding request was reduced by \$40.453M to account for the availability of prior year execution balances.

FY2022 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.

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.

Exhibit P-40a, E	Bud	lget l	tem Jus	tificatio	n For A	ggregat	ed Iten	ns: PB 20)22 Air F	orce					0	Date: Mag	y 2021			
Appropriation / 3011F / 01 / 13	Bu	ıdget	Activity	/ Budg	et Sub /	Activity:		P-1 Line 353020 /				S			(Aggregat E466) Mł TRITONA	K-81, 25		BOMB,	
	MDAR/						FY 2020)		FY 2021		F۱	2022 Ba	se	F	Y 2022 OC	:0	F۱	(2022 Tot	al:
ltem Number / Title [DODIC]	ber / ID MAIS Unit Cost Qty Cost Unit C							Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cos (\$ M)	t Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
UNCATEGORIZED																				
(E466) MK-81, 250LB BOMB	ORIZED MK-81, 250LB A 0.000 0.000						2,317	9.268	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: UNCATEGORIZ	ED		-	-	0.000	-	-	9.268	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	0.000	-	-	9.268	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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

Exhibit P-40a, B	Bud	get l	tem Jus	tificatio	n For A	ggregat	ed Iten	ns: PB 20	022 Air F	orce					C	ate: Mag	y 2021			
Appropriation / 3011F / 01 / 13	Bu	dget	Activity	/ Budg	et Sub	Activity:		P-1 Line 353020 /				s				Aggregat EC32) M		is Title: GCG, Fl	N ASSE	EMBLY
			Р	rior Years	6		FY 2020)		FY 2021		F۱	/ 2022 Ba	se	F	Y 2022 OC	:0	F۱	2022 Tot	al
Item Number / Title [DODIC]	ID	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																,				
MXU-650 FIN ASSEMBLY - EC32	A		-	-	-	0.004	3,840	0 14.797	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Uncategorized			-	-	-	-	-	14.797	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	14.797	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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

Remarks:

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

Exhibit P-40a, I	Bud	lget l	tem Jus	tificatio	n For A	ggregate	ed Iten	ns: PB 20	022 Air F	orce					C	ate: Ma	y 2021			
Appropriation / 3011F / 01 / 13	'Bu	dget	Activity	/ Budg	et Sub	Activity:		P-1 Line 353020 /				s				Aggregat 00LB GF		s Title: Variants		
			P	rior Years	S		FY 2020			FY 2021		FY	′ 2022 Bas	6e	F	Y 2022 OC	:0	F۱	2022 Tot	al
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 A/B 500LB GP BOMB	A		-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
(485) MK-82 500LB GP BOMB, Tritonal	A		-	-	-	0.005	23,495	5 126.874	0.005	7,428	40.109	-	-	0.000	-	-	-	-	-	0.000
BLU-111 500LB Penetrator (UON)	A		-	-	-	0.044	1,642	2 71.630	0.056	1,075	59.762	0.051	1,016	51.816	-	-	-	0.051	1,016	51.816
Subtotal: 500 LB Variants	5		-	-	-	-	-	198.504	-	-	99.871	-	-	51.816	-	-	-	-	-	51.816
Total			-	-	-	-	-	198.504	-	-	99.871	-	-	51.816	-	-	-	-	-	51.816

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

Remarks:

BLU-111 AUR unit cost for FY20 is \$40,448 per bomb; FY21 is \$51,624 per bomb; FY22 is \$52,282 per bomb. BLU-111 has other government costs which make up the Delta in the funding line.

Exhibit P-40a, I	Bud	get l	tem Jus	tificatio	n For A	ggregat	ed Iter	ns: PB 20	022 Air F	orce						Date: Ma	y 2021			
Appropriation / 3011F / 01 / 13	Bu	dget	Activity	/ / Budg	et Sub	Activity		P-1 Line 353020 /				s				Aggregat 2000LB ⊢			trator Va	ariants
			Р	rior Year	S		FY 2020)		FY 2021		F	Y 2022 Ba	se		FY 2022 OC	:0	F۱	2022 Tot	al
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cos (\$ M)	st Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
2000LB Hard Target Pene	etrator	r Variant	s						,ı			1								
(F140) BLU-109/B 2000LB Penetrator, Tritonal	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
(ED49) BLU-109C/B IM, 2000LB Pentrator	Α		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
BLU-137/A2K	Α		-	-	-	0.082	1,04	0 85.024	0.068	1,040	70.590	0.061	550	33.600	-	-	-	0.061	550	33.600
Subtotal: 2000LB Hard Ta Penetrator Variants	arget		-	-	-	-	-	85.024	-	-	70.590	-	-	33.600	-	-	-	-	-	33.600
Total			-	-	-	-	-	85.024	-	-	70.590	-	-	33.600	-	-	-	-	-	33.600

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

Remarks:

A2K's actual AUR unit cost for FY20 is \$54,362 per bomb; FY21 is \$60,315 per bomb; FY22 is \$61,462 per bomb. A2K's has other government costs which make up the Delta in the funding line.

Exhibit P-40a, I	Buc	dget l	tem Jus	tificatio	on For A	ggregat	ed Item	15: PB 20	022 Air F	orce					D	ate: Mag	y 2021			
Appropriation / 3011F / 01 / 13	Βι	udget	Activity	/ / Budg	jet Sub	Activity:		P-1 Line 353020 /				s				ggregat ED58) M		is Title: C/B CCG	i	
	Prior Years						FY 2020			FY 2021		FY	2022 Ba	se	F	Y 2022 OC	:0	FY	2022 Tot	al
ltem Number / Title [DODIC]	ID CD	MAIS	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
MAU-209C/B - ED58	Α		-	-	-	0.008	3,679	28.820	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Subtotal: Uncategorized							-	28.820	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total Note: Subtotals or Tot			-	-	-	-	-	28.820	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

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

Remarks:

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

3011F / 01 / 13	Buc					Activity:	I	P-1 Line	022 Air F Item Nu General	mber / T		s						is Title: bs Varian	ts	
			Р	rior Years	;		FY 2020			FY 2021			2022 Ba	se	FY	2022 00	0	FY	2022 Tot	al
Item Number / Title [DODIC]	ID CD □		Unit Cost	Qty (Fach)	Total Cost	Unit Cost	Qty (Fach)	Total Cost	Unit Cost	Qty (Fach)	Total Cost	Unit Cost	Qty (Fach)	Total Cost	Unit Cost	Qty (Fach)	Total Cost		Qty (Fach)	Total Cost (\$ M)
Hardware		Code	(\$ M)	(Each)	(\$ M)	(\$ M)	(Each)	(\$ M)	(\$ M)	(Each)	(\$ M)	(\$ M)	(Each)	(\$ M)	(\$ M)	(Each)	(\$ M)	(\$ M)	(Each)	(\$ M)
(ED09) BLU-117, 2000LB GP BOMB	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.0
(F275) MK-84, 2000LB GP BOMB, Tritonal	A		-	-	-	0.015	9,988	149.821	0.015	9,063	135.944	-	-	0.000	-	-	-	-	-	0.0
Subtotal: Hardware			-	-	-	-	-	149.821	-	-	135.944	-	-	0.000	-	-	-	-	-	0.
otal			-	-	-	-	-	149.821	-	-	135.944		-	0.000		-	-	-	-	0.0

Exhibit P-40a,	Bud	dget l	tem Jus	tificatio	on For A	ggregat	ed Iter	ns: PB 2	022 Air F	orce					C	Date: Mag	y 2021			
Appropriation 3011F / 01 / 13		udget	Activity	/ / Budg	jet Sub	Activity		P-1 Line 353020 /				s				Aggregat		ns Title:		
	Prior Years							0		FY 2021		F۱	(2022 Bas	se	F	Y 2022 OC	:0	FY	2022 Tot	al
ltem Number / Title [DODIC]	ID CD	MAIS	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cos (\$ M)	t Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
GBU-72	Α		-	-	-	-	-	-	-	-	-	0.288	125	36.000	-	-	-	0.288	125	36.000
Subtotal: Uncategorized							-	-	-	-	-	-	-	36.000	-	-	-	-	-	36.000
Total	categorized							-	-	-	-	-	-	36.000	-	-	-	-	-	36.000
lote: Subtotals or To	tals i	n this E	xhibit P-40a	may not be	exact or su	im exactly, d	ue to rour	ndina.								·	·	· · · · · · · · · · · · · · · · · · ·		

Remarks:

BLU-138 (GBU-72) A5K is a New Start for FY22.

BLU-138 AUR unit cost for FY22 is \$202,981 per bomb.

A5K has other government costs which make up the Delta in the funding line.

Exhibit P-40a,	Buo	dget l	tem Jus	tificatio	on For A	ggregat	ed Iten	ns: PB 20	022 Air F	orce					[Date: Ma	y 2021			
Appropriation 3011F / 01 / 13	/ Bi	udget	Activity	/ / Budg	jet Sub	Activity		P-1 Line 353020 /				s				Aggregat 3LU-134/				
			P	Prior Year	s		FY 2020)		FY 2021		F۱	(2022 Ba	se	F	Y 2022 OC	:0	F۱	7 2022 Tot	tal
ltem Number / Title [DODIC]	ID CD	1	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cos (\$ M)	t Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BLU-134/B, CDI 500 lb	A		-	-	-	0.009	4,555	5 41.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	41.000	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	41.000	-	-	-	-	-	-	-	-	-	-	-	-
Note: Subtotals or Tot	als i	n this Ex	xhibit P-40a	may not be	exact or s	um exactly, d	ue to rour	nding.				·	•		÷	·	•	• • • • •		

Remarks:

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

BLU-134/B, Improved Lethality Warhead (ILW), NGAAW Increment I, is a 500 lb area attack warhead with improved lethality against personnel and materiel targets. The unitary warhead meets DoD policy on cluster munitions.

Exhibit P-40a, E	Bud	lget l	tem Jus	tificatio	n For A	ggregat	ed Item	is: PB 20)22 Air F	orce					C	Date: Mag	y 2021			
Appropriation / 3011F / 01 / 13	Bu	dget	Activity	/ / Budg	et Sub /	Activity:		P-1 Line 353020 /				s				Aggregat BLU-136/		B GP BC	OMB	
	Prior Years									FY 2021		F۱	/ 2022 Ba	se	F	Y 2022 OC	:0	FY	' 2022 Tot	al
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	t Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
BLU-136/B, 2,000 lb.	A		-	-	0.000	0.181	125	22.683	0.276	125	34.548	0.048	900	43.189	-	-	-	0.048	900	43.189
Subtotal: Uncategorized			-	-	0.000	-	-	22.683	-	-	34.548	-	-	43.189	-	-	-	-	-	43.189
Total Note: Subtotals or Tota			-	-	0.000	-	-	22.683	-	-	34.548	-	-	43.189	-	-	-	-	-	43.189

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 FY20 is \$55,711 per bomb; FY21 is \$55.375; FY22 is \$40,819 per bomb. BLU-136/B has other government costs which make up the Delta in the funding line.

Exhibit P-40a, E	Buc	lget l	tem Jus	tificatio	on For A	ggregat	ed Iter	ns: PB 20)22 Air F	orce					C	ate: Mag	y 2021			
Appropriation / 3011F / 01 / 13	'Bu	ıdget	t Activity	/ Budg	et Sub /	Activity:		P-1 Line 353020 /				S			G		L PURF	IS Title: POSE BO AILLION)	•	EMS
			P	rior Year	s		FY 2020)		FY 2021		FY	2022 Ba	se	F	Y 2022 OC	:0	FY	/ 2022 Tot	al
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized					-															
FEM Conversion	Α		-	-	-	-	-	17.000	-	-	-	-	-	0.000	-	-	-	-	-	0.000
MXU-651 AFG, GBU-10 (EC31)	Α		-	-	-	-	-	1.800	-	-	-	-	-	0.000	-	-	-	-	-	0.000
Facilitization	Α		-	-	-	-	-	23.460	-	-	0.000	-	-	-	-	-	-	-	-	-
BOMB FUZE PROTECTION ASSEMBLY (ED67)	A		-	-	-	-	-	0.500	-	-	0.500	-	-	0.000	-	-	-	-	-	0.000
MK84 FIN ASSEMBLY (F607)	Α		-	-	-	-	-	1.000	-	-	1.000	-	-	0.000	-	-	-	-	-	0.000
FIN ASSY BSU-33B/ B (EE10)	A		-	-	-	-	-	3.000	-	-	3.000	-	-	0.000	-	-	-	-	-	0.000
(ED41) BLU-110B/B GENERAL PURPOSE BOMB	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IM	А		-	-	-	-	-	5.500	-	-	5.500	-	-	0.000	-	-	-	-	-	0.000
LWIP	Α		-	-	-	-	-	3.000	-	-	3.000	-	-	0.000	-	-	-	-	-	0.000
WEAPS/IMEA	Α		-	-	-	-	-	5.755	-	-	1.400	-	-	3.300	-	-	-	-	-	3.300
First Destination Transportation Costs	A		-	-	-	-	-	6.300	-	-	4.500	-	-	2.000	-	-	-	-	-	2.000
Support Cups	Α		-	-	-	-	-	1.500	-	-	1.500	-	-	0.000	-	-	-	-	-	0.000
Nose Plugs	А		-	-	-	-	-	2.000	-	-	2.200	-	-	0.000	-	-	-	-	-	0.000
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	1.000	-	-	6.013	-	-	6.660	-	-	-	-	-	6.660
Subtotal: Uncategorized			-	-	-	-	-	71.815	-	-	28.613	-	-	11.960	-	-	-	-	-	11.960
Total			-	-	-	-	-	71.815	-	-	28.613	-	-	11.960	-	-	-	-	-	11.960

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

Exhibit P-40, Budget Line Item	Justificatio	n: PB 2022	Air Force						Date: N	1ay 2021		
				/ BSA 13:					r (MOP)			
ID Code (A=Service Ready, B=Not Service Ready):	A		Activity: A 01: Ammunition / BSA 13: P-1 Line Item Number / Title: 353190 / Massive Ordnance Penetrator (MOP) Program Elements for Code B Items: N/A Other Related Program Elements: 0604327F 2020 FY 2021 FY 2022 Base FY 2022 OCO FY 2022 Total FY 2023 FY 2024 FY 2025 FY 2026 To Complete Total - - - - - - - - - 0.000 0.000 15.500 - 15.500 - - - - - 0.000 0.000 15.500 - 15.500 - - - - - - 0.000 0.000 15.500 - 15.500 - - - - - 0.000 0.000 15.500 -									
Line Item MDAP/MAIS Code: 527												
Resource Summary	Prior Years	FY 2020	FY 2021	_			FY 2023	FY 2024	FY 2025	FY 2026		Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	0.000	15.500	-	15.500	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	0.000	15.500	-	15.500	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	n / Budget Activity / Budget Sub Activity: Irement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: e Ready, B=Not Service Ready): A Program Elements for Code B Items: N/A Program Elements for Code B Items: N/A VMAIS Code: 527 Tee Summary Years FY 2020 FY 2021 FY 2022 Base OCO Total FY 2023 FY 2023 FY 2024 FY 2025 FY 2026 Complete Total FY 2023 FY 2024 FY 2025 FY 2026 Complete Total FY 2025 FY 2026 Complete Total FY 2025 FY 2026 Complete Itily (Units in Each)											
Total Obligation Authority (\$ in Millions)	P-1 Line Item Number / Title: 353190 / Massive Ordnance Penetrator (MOP) Program Elements for Code B Items: N/A Other Related Program Elements: 0604327F Total Prior Years FY 2020 FY 2022 Base FY 2022 Total FY 2023 FY 2025 FY 2026 Total Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OCO FY 2022 Total FY 2023 FY 2024 FY 2025 FY 2026 Complete Total 0.000 0.000 15.500 0											
(The following	Privation / Budget Activity / Budget Sub Activity: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: s P-1 Line Item Number / Title: 353190 / Massive Ordnance Penetrator (MOP) e (A=Service Ready): A Program Elements for Code B Items: N/A Other Related Program Elements: 0604327F e (A=Service Ready): B=Not Service Ready): A Program Elements for Code B Items: N/A Other Related Program Elements: 0604327F em MDAP/MAIS Code: 527 FY 2020 FY 2021 FY 2022 FY 2022 FY 2022 FY 2023 FY 2023 FY 2026 FY 2026 Total ment Quantity (Units in Each) -											
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

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. For example, the integration of Military Code (M-Code) receivers with Enhanced Anti-Jam (EAJ) in order to provide advanced Positioning, Navigation, and Timing (PNT) capabilities to allow operations in anti-access/area denial (A2/AD) environments. M-Code and EAJ also provide increased accuracy, better signal acquisition, and advanced security.

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.

Exhib	it P-40, Budget Line Item Justification: P	B 2022 Air	Fo	rce				Date: Ma	ay 2021	
	priation / Budget Activity / Budget Sub / : Procurement of Ammunition, Air Force / B s		nun	ition / I		P-1 Line Item Nu 353190 / Massive		rator (MOP)		
D Cod	e (A=Service Ready, B=Not Service Ready): A	Pro	grar	m Eleme	ents for Code B Ite	ms: N/A	Other F	Related Program Ele	ments: 0604327F	
ine Ite	m MDAP/MAIS Code: 527	I								
	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)
-5	Massive Ordnance Penetrator (MOP)		Α		- / -	- / 0.000	- / 0.000	- / 15.500	- / -	- / 15.500
-40	Total Gross/Weapon System Cost	•			- / -	- / 0.000	- / 0.000	- / 15.500	- 1 -	- / 15.500
Title rep	resents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Am	imuni	ition; and/	or 3) the Number / Title	e (Modification Type) for M	lodifications.			
lote: To	tals in this Exhibit P-40 set may not be exact or sum exactly d	ue to rounding.								

· · · · ·			22 Air F											Date: M	•			
Appropriation / B 3011F / 01 / 13	udget A	ctivity /	Budget	Sub Act	ivity:			Numbe sive Ord		: enetrator	r (MOP)					Fitle [DOI ice Penet		OP)
ID Code (A=Service Read	ly, B=Not Servi	ce Ready) :	A						M	DAP/MAIS	Code:							
F	Resource	Summ	ary			Prior Yea	ars	FY 20)20	FY	2021	FY 2	2022 Bas	se F	Y 2022	000	FY 2022	Total
Procurement Quantity (Uni	its in Each)		-				-		-		-			-		-		_
Gross/Weapon System Co		s)					-		0.000		0.00	0	1:	5.500		-		15.50
Less PY Advance Procure	ement (\$ in Mil	lions)					-		-		-	_		-		-		-
Net Procurement (P-1) (\$ /	n Millions)						-		0.000		0.00	0	1:	5.500		-		15.50
Plus CY Advance Procure	ment (\$ in Mil	lions)					-		-		-			-		-		-
Total Obligation Authorit	y (\$ in Millions	;)					-		0.000		0.00	D	1	5.500		-		15.50
(T)	he following l	Resource S	ummary row	s are for info	rmational p	urposes only	. The corres	ponding bud	lget request	s are docum	ented elsewh	ere.)						
Initial Spares (\$ in Millions)	Ū		,			, ,	-	, ,	-		-	,		-		-		-
Gross/Weapon System Ur	nit Cost (\$ in I	Aillions)					-		-		-			-		-		-
							I			1						I		
Note: Subtotals or Totals i	n this Exhibit	P-5 may no	ot be exact of	or sum exactl	y due to roi	unding.												
				1							(0000 D	-			~		2022 Tot	al
		rior Year	5		FY 2020			FY 2021		F1	(2022 Bas	Ð	F`	(2022 OC	0	ו ד	2022 100	ai
Cost Elements	F Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
	F Unit Cost (\$ M)	Qty (Each)	Total	Unit Cost (\$ M)			Unit Cost (\$ M)					Total			Total			Total
Cost Elements	F Unit Cost (\$ M)	Qty (Each)	Total Cost		Qty	Cost		Qty	Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
Cost Elements Hardware - Massive Ordnanc	F Unit Cost (\$ M)	Qty (Each)	Total Cost		Qty	Cost	(\$ M)	Qty	Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
Cost Elements Hardware - Massive Ordnanc Recurring Cost	F Unit Cost (\$ M) e Penetrator (N	Qty (Each) 10P) Cost	Total Cost	(\$ M)	Qty (Each)	Cost (\$ M)	(\$ M)	Qty (Each)	Cost (\$ M)	Unit Cost (\$ M)	Qty	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M) 14.80
Cost Elements Hardware - Massive Ordnanc Recurring Cost MOP Equipment	F Unit Cost (\$ M) e Penetrator (N	Qty (Each) IOP) Cost	Total Cost (\$ M)	(\$ M)	Qty (Each)	Cost (\$ M) 0.000	(\$ M)	Qty (Each)	Cost (\$ M) 0.000	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M) 14.800	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M) 14.80 14.80
Cost Elements Hardware - Massive Ordnanc Recurring Cost MOP Equipment Subtotal: Recurring Cost Subtotal: Hardware - Massive Ordnance	F Unit Cost (\$ M) e Penetrator (N - - -	Qty (Each) 10P) Cost - - -	Total Cost (\$ M)	(\$ M)	Qty (Each)	Cost (\$ M) 0.000 0.000	(\$ M)	Qty (Each)	Cost (\$ M) 0.000 0.000	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M) 14.800 14.800	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M) - -	Unit Cost (\$ M)	Qty (Each) - -	Total Cost (\$ M)
Cost Elements Hardware - Massive Ordnanc Recurring Cost MOP Equipment Subtotal: Recurring Cost Subtotal: Hardware - Massive Ordnance Penetrator (MOP) Cost	F Unit Cost (\$ M) e Penetrator (N - - -	Qty (Each) 10P) Cost - - -	Total Cost (\$ M)	(\$ M)	Qty (Each)	Cost (\$ M) 0.000 0.000	(\$ M)	Qty (Each)	Cost (\$ M) 0.000 0.000	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M) 14.800 14.800	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M) - -	Unit Cost (\$ M)	Qty (Each) - -	Total Cost (\$ M) 14.80 14.80 14.80
Cost Elements Hardware - Massive Ordnanc Recurring Cost MOP Equipment Subtotal: Recurring Cost Subtotal: Hardware - Massive Ordnance Penetrator (MOP) Cost Support - Massive Ordnance PMA Other Government	F Unit Cost (\$ M) e Penetrator (N - - -	Qty (Each) 10P) Cost - - -	Total Cost (\$ M) - - -	(\$ M) - - -	Qty (Each) - -	Cost (\$ M) 0.000 0.000	(\$ M)	Qty (Each)	Cost (\$ M) 0.000 0.000 0.000	Unit Cost (\$ M) - - -	Qty (Each)	Total Cost (\$ M) 14.800 14.800 14.800	Unit Cost (\$ M) - - -	Qty (Each) - -	Total Cost (\$ M) - - -	Unit Cost (\$ M)	Qty (Each) - - -	Total Cost (\$ M) 14.80 14.80

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Exhibit P-40, Budget Line Item	Justificatio	n: PB 2022	Air Force						Date: N	1ay 2021		
				/ BSA 13:								
ID Code (A=Service Ready, B=Not Service Ready):	A		Program Ele	ments for Co	de B Items: N	J/A		Other Relate	d Program El	То		
Line Item MDAP/MAIS Code: 503	P-1 Line Item Number / Title: 353620 / Joint Direct Attack Munition P-1 Line Item Number / Title: 353620 / Joint Direct Attack Munition Sold (A=Service Ready): A Program Elements for Code B Items: N/A Ode (A=Service Ready): A Program Elements for Code B Items: N/A PY 2022 FY 2023 FY 2024 FY 2025 FY 2026 To Complete Urement Quantity (Units in Each) 313.869 24.794 1.919 - - - - - - - - - - - - - - - - - - - <th colspa<="" th=""></th>											
Resource Summary		FY 2020	FY 2021	_			FY 2023	FY 2024	FY 2025	FY 2026		Total
Procurement Quantity (Units in Each)	313,869	24,794	16,800	1,919	-	1,919	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	7,613.431	1,034.224	459.712	124.102	-	124.102	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	7,613.431	1,034.224	459.712	124.102	-	124.102	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	7,613.431	1,034.224	459.712	124.102	-	124.102	-	-	-	-	-	-
(The following	Pulget Activity / Budget Sub Activity: ent of Ammunition, Air Force / BA 01: Ammunition / BSA 13: P-1 Line Item Number / Title: 353620 / Joint Direct Attack Munition r, B=Not Service Ready): A Program Elements for Code B Items: N/A Other Related Program Elements: N/A S Code: 503 FY 2020 FY 2021 FY 2022 FY 2022 FY 2023 FY 2023 FY 2024 FY 2025 FY 2026 To Complete Total sts in Each) 313,869 24,794 16,800 1,919 - </td											
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	0.024	0.042	0.027	0.065	-	0.065	-	-	-	-	-	-

Description:

FY21 funding totals include \$237.723M appropriated for Overseas Contingency Operations (OCO). FY22 funding totals include \$68.222M requested for Direct War costs.

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 FY19. 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 FY23 award to Lot 27 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 FY2026 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.

The FY2022 funding request was reduced by 270.928M to account for the availability of prior year execution balances.

Funding for this exhibit is contained in PE 0207583F.

Exhib	it P-40, Budget Line Item Justification: P	B 2022 Ai	r Fo	rce				Date: Ma	ay 2021	
	opriation / Budget Activity / Budget Sub / E: Procurement of Ammunition, Air Force / B s		mun	ition / I		P-1 Line Item Nu 353620 / Joint Dir		on		
ID Cod	e (A=Service Ready, B=Not Service Ready): A	Pre	ogra	m Elemo	ents for Code B Iter	ns: N/A	Other I	Related Program Ele	ements: N/A	
Line Ite	m MDAP/MAIS Code: 503	·								
	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)
P-5	Joint Direct Attack Munition	P-5a, P-21	А		313,869 / 7,613.431	24,794 / 1,034.224	16,800 / 459.712	1,919 / 124.102	- / -	1,919 / 124.102
P-40	Total Gross/Weapon System Cost				313,869 / 7,613.431	24,794 / 1,034.224	16,800 / 459.712	1,919 / 124.102	- 1 -	1,919 / 124.102
*Title rep	presents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for An	nmuni	ition; and/	or 3) the Number / Title	(Modification Type) for N	Modifications.			
Note: To	tals in this Exhibit P-40 set may not be exact or sum exactly d	ue to rounding								
include This pr Procur	rogram procures JDAM guidance kits, laser sensors, a es a mixture of JDAM guidance kits as well as precision rocurement is critical to replenish stockpiles supporting rement quantities can change based on negotiated opti Budgeted quantities should be 23490 for FY20. Based	n laser guida ı on-going wa ions/pricing o	nce s arfigh curve	sensors, iter miss s and av	and airborne test eq ions in which JDAM railable funding, in ac	uipment for flight test comprises the majorit ccordance with Title 1	y of combat expendit	ures.		hardware purchase
LI 353	620 - Joint Direct Attack Munition				UNCLAS	SIFIED				

Exhibit P-5, Cost	Analysis	s: PB 202	22 Air Fo	orce										Date: N	<i>l</i> ay 2021/			
Appropriation / B 3011F / 01 / 13	udget A	ctivity / I	Budget	Sub Acti	vity:			n Numbe t Direct A							u mber / T irect Attac			
ID Code (A=Service Read	ly, B=Not Servi	ce Ready):	4			•			М	DAP/MAI	S Code:							
F	Resource	Summa	ary		F	Prior Yea	ars	FY 20)20	FY	2021	FY 2	2022 Ba	se F	Y 2022 C	000	FY 2022	2 Total
Procurement Quantity (Uni	ts in Each)		-				313,869		24,794		16,80	0		1,919		-		1,919
Gross/Weapon System Co	ost (\$ in Million	s)				7.	,613.431		1,034.224		459.71	2	12	4.102		-		124.102
Less PY Advance Procure							-		-		-			-		-		-
Net Procurement (P-1) (\$ i	n Millions)					7,	,613.431		1,034.224		459.71	2	12	4.102		-		124.102
Plus CY Advance Procure	ment (\$ in Mil	lions)					-		-		-			-		-		-
Total Obligation Authorit	y (\$ in Millions	;)				7,	,613.431		1,034.224		459.71	2	12	4.102		-		124.102
(Tł	ne following l	Resource Su	immary row	s are for infor	mational pu	urposes only	. The corres	ponding bud	lget request	s are docum	ented elsewh	ere.)				<u>, </u>		
Initial Spares (\$ in Millions)			-				-	-	-		-			-		-		-
Gross/Weapon System Ur	nit Cost (\$ in I	Aillions)					0.024		0.042		0.02	7		0.065		-		0.065
												1		1		1		
Note: Subtotals or Totals in	n this Exhibit	P-5 may no	t be exact c	or sum exactly	/ due to rou	nding.												
	F	Prior Years	;		FY 2020			FY 2021		F۱	Y 2022 Bas	e	F	Y 2022 O	со	F	/ 2022 Tot	.al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware - END ITEM Cost	(+)	((+)	(+)	()	(+)	(+)	((*)	(+)	((*)	(+)	()	(+)	(+)	()	(+)
Recurring Cost																		
JDAM TAIL KIT ^(†)	0.022	313,869	6,940.903	0.035	24,794	879.872	0.023	16,800	389.885	0.039	1,919	75.518	-	-	-	0.039	1,919	75.518
LASER SENSOR	0.013	27,299	346.565	0.014	4,533	62.820	0.018	3,000	53.334	-	-	0.000	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	7,287.468	-	-	942.692	-	-	443.219	-	-	75.518	-	-	0.000	-	-	75.518
Subtotal: Hardware - END ITEM Cost	-	-	7,287.468	-	-	942.692	-	-	443.219	-	-	75.518	-	-	0.000	-	-	75.518
Ancillary Equipment - TEST E	QUIPMENT C	ost		· · ·														
Recurring Cost	· · · · · · · · · · · · · · · · · · ·	1				r		[]					1		1		1	·
AIRBORNE TEST EQUIPMENT	-	-	101.212	-	-	3.822	-	-	1.207	-	-	11.392	-	-	0.000	-	-	11.392
Subtotal: Recurring Cost	-	-	101.212	-	-	3.822	-	-	1.207	-	-	11.392	-	-	0.000	-	-	11.392
Subtotal: Ancillary Equipment - TEST EQUIPMENT Cost	-	-	101.212	-	-	3.822	-	-	1.207	-	-	11.392	-	-	0.000	-	-	11.392
Support - END ITEM SUPPOR	RT Cost			·		·	·	·			I							
PROGRAM MANAGEMENT ADMINISTRATION	-	-	53.366	-	-	4.368	-	-	3.876	-	-	4.755	-	-	0.000	-	-	4.755
PRODUCTION SUSTAINING ENGINEERING	-	-	171.385	-	-	83.342	-	-	11.410	-	-	32.437	-	-	0.000	-	-	32.437
Subtotal: Support - END ITEM SUPPORT Cost	-	-	224.751	-	-	87.710	-	-	15.286	-	-	37.192	-	-	0.000	-	-	37.192

Exhibit P-5, Cost	Analysis	: PB 202	22 Air Fo	orce										Date: Ma	ay 2021			
Appropriation / E 3011F / 01 / 13	Budget Ac	tivity / l	Budget	Sub Acti	vity:	1	ine Item									Fitle [DOI ck Munitic	-	
ID Code (A=Service Rea	dy, B=Not Servio	e Ready): A	4			·			М	DAP/MAIS	Code:							
Note: Subtotals or Totals	in this Exhibit	P-5 may no	t be exact c	or sum exactly	y due to rour	nding.												
	P	rior Years			FY 2020			FY 2021		F۲	7 2022 Bas	e	F	Y 2022 OC	0	F١	2022 Tota	al
Cost Elements	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	0.024	313,869	7,613.431	0.042	24,794	1,034.224	0.027	16,800	459.712	0.065	1,919	124.102	-	-	-	0.065	1,919	124.10

Remarks:

Budgeted JDAM guidance kit quantities should be 23490 for FY20 with a unit cost of \$0.037M. Based on the most recent cost estimates, quantities should be 9909 for FY21 with a unit cost of \$0.039M.

Increased funding for Airborne Test Equipment will be used to procure the next generation HCTM (High Bandwidth Compact Telemetry kits). FY22 will be the first year of production of the new variant, funds will be used to procure an estimated 200 TM kits with associated accessories.

Increased funding for Production Sustaining Engineering will be used for integration of the ASIC and M-Code FPGA. Also associated systems test and evaluation cost for block 12S and M-code integration.

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurem	ent Hi	story a	n d Planning: PB 2022 A	ir Force				Date:	May 202	1		
Appropriation / Budget 3011F / 01 / 13	Activi	ty / Buo	dget Sub Activity:	P-1 Line Item Nur 353620 / Joint Dire					Number / Direct Atta		[DODIC]: unition	
Cost Elements	0 C 0	FY	Contractor and Locatior	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
JDAM TAIL KIT ^(†)		2020	BOEING / ST CHARLES, MC	SS / FFP	AFLCMC Hill AFB	Feb 2020	Feb 2021	24,794	0.035	Y		Aug 2017
JDAM TAIL KIT ^(†)		2021	BOEING / ST CHARLES, MC	SS / FFP	AFLCMC Hill AFB	Feb 2022	Feb 2023	16,800	0.023	Y		Aug 2017
JDAM TAIL KIT ^(†)		2022	BOEING / ST CHARLES, MC	SS / FFP	AFLCMC Hill AFB	Feb 2022	Feb 2023	1,919	0.039	Y		Aug 2017

 $^{(\dagger)}$ indicates the presence of a P-21

Remarks:

FY2021 and FY2022 JDAM guidance kit increased unit costs include the SABR-Y upgraded GPS receiver and the modified JDAM guidance kit hardback design used for the BLU-137 penetrator warhead.

The Air Force is developing the BLU-137 which is a modernized 2,000-lb. penetrator warhead. The BLU-137 will increase fuze survivability when used against bunkers, aircraft shelters, and reinforced targets.

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. As a stop-gap capability, the Air Force is working to procure SABR-Y as a follow-on requirement until M-Code integration is achieved. The SABR-Y guidance kit will increase anti-jam capabilities in GPS degraded theaters, and leverages existing JDAM guidance kit designs.

Ap	pr	орі	P-21, Pr riation / 01 / 13								:			Item Joint				: unitio	n					Item	e: May Num t Direc	ber /	Title				
				lements Thousands								Fiscal Y	'ear 2020									1		Fiscal Ye							B
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0		FY	SERVICE	QTY	2019	1 OCT	т	V	C	N	В	R	R	Y	N	L	G	Р	Т	v	C	N	В	R	R	Y	N	L	G	Р	E
_		AIL K	eliveries: 313	860																											-
		2020	1	24.794	000	24.794					A -	-	-	-	-	-	-	-	-	-	-	-	2.066	2.066	2.066	2.066	2.066	2.066	2.066	2.066	8.2
		2020		1.533	.000						A -	-	-	-	-	-			-	-	-	-	.128	.128	.128	.128	.128	.128	.128	.128	.5
	_	2020		3.228	.000					_	A -	-	-	-	-	-	-	-	-	-	-	-	.269		.269	.269	.269	.269	.269	.269	1.0
		2020 2020		29.555		29.555					- A	-	-	-	-	-	-	-	-	-	-	-	2.463			2.463	2.463	2.463	2.463	2.463	<u> </u>
_	_	2020	AF	16.800		16.800				_	-	-	-	-	-	-	-	-	-	-	-	-	2.403	2.403	2.403	2.403	2.403	2.403	2.403	2.403	16.8
-		2021	FMS ^(‡)	3.368	.000																										3.3
		2021		3.271	.000																										3.2
		2021 2021		23.439	.000																										3.2 23.4
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-		2022		3.650	.000																										3.6
		2022		2.971	.000																										2.9
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Prior Ye	ears D	eliveries: 3138	369																											
1	2020	AF	24.794	16.528	8.266	2.066	2.066	2.067	2.067																					.0
1	2020	FMS ^(‡)	1.533	1.024	.509	.128	.127	.127	.127																					.0
1	2020	NAVY ^(‡)	3.228	2.152	1.076	.269	.269	.269	.269																					.0
1	2020	Total	29.555	19.704	9.851	2.463	2.462	2.463	2.463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.0
1	2021	AF	16.800	.000	16.800					Α-	-	-	-	-	-	-	-	-	-	-	-	1.400	1.400	1.400	1.400	1.400	1.400	1.400	1.400	5.6
1	2021	FMS ^(‡)	3.368	.000	3.368					A.281	.281	.281	.281	.281	.281	.281	.281	.280	.280	.280	.280	-	-	-	-	-	-	-	-	.0
1	2021	NAVY ^(‡)	3.271	.000	3.271					A.273	.273	.273	.273	.273	.273	.273	.272	.272	.272	.272	.272	-	-	-	-	-	-	-	-	.0
1	2021	Total	23.439	.000	23.439					.554	.554	.554	.554	.554	.554	.554	.553	.552	.552	.552	.552	1.400	1.400	1.400	1.400	1.400	1.400	1.400	1.400	5.6
1	2022	AF	1.919	.000	1.919					Α-	-	-	-	-	-	-	-	-	-	-	-	.160	.160	.160	.160	.160	.160	.160	.160	.6
1	2022	FMS ^(‡)	3.650	.000	3.650					Α-	-	-	-	-	-	-	-	-	-	-	-	.304	.304	.304	.304	.304	.304	.304	.304	1.2
1	2022	NAVY ^(‡)	2.971	.000	2.971					A -	-	-	-	-	-	-	-	-	-	-	-	.248	.248	.248	.248	.248	.248	.248	.247	.98
1	2022	Total	8.540	.000	8.540					-	-	-	-	-	-	-	-	-	-	-	-	.712	.712	.712	.712	.712	.712	.712	.711	2.84
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rior Years D	Deliveries: 3138	369																											
1 2020	AF	24.794	24.794	.000																									.0
1 2020	FMS ^(‡)	1.533	1.533	.000																									.0
1 2020	NAVY ^(‡)	3.228	3.228	.000																									.0
1 2020	Total	29.555	29.555	.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.0
1 2021	_	16.800	11.200	5.600	1.400	1.400	1.400	1.400																					.0
1 2021	FMS ^(‡)	3.368	3.368	.000	-	-	-	-																					.0
1 2021	NAVY ^(‡)	3.271	3.271	.000	-	-	-	-																					.0
1 2021	Total	23.439	17.839	5.600	1.400	1.400	1.400	1.400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.0
1 2022	AF	1.919	1.280	.639	.160	.160	.160	.159																					.0
1 2022	FMS ^(‡)	3.650	2.432	1.218	.304	.304	.305	.305																					.0
1 2022	NAVY ^(‡)	2.971	1.983	.988	.247	.247	.247	.247																					.0
1 2022	Total	8.540	5.695	2.845	.711	.711	.712	.711	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.0
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Ex	hibit P-21, Production	n Schedule: F	PB 2022 Air F	orce					Da	te: May 2021		
-	propriation / Budget / 11F / 01 / 13	Activity / Buo	dget Sub Act	-	P-1 Line Item 353620 / Joint					m Number / int Direct Atta	-]:
		Produc	ction Rates (Each	/ Year)				Procurement Le	adtime (Months)			
MEF						Ini	tial			Reo	rder	
Ref #	Manufacturer Name - Location	MSR For 2022	1-8-5 For 2022	MAX For 2022	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
	BOEING - ST CHARLES, MO	10,500	18,900	45,000	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).

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Exhibit P-40, Budget Line Item	Justificatio	n: PB 2022	Air Force						Date: N	1ay 2021		
Appropriation / Budget Activity 3011F: Procurement of Ammunitio Bombs				/ BSA 13:		Line Item N)40 / B-61	umber / Ti	tle:				
ID Code (A=Service Ready, B=Not Service Ready):	В		Program Ele	ments for Co	de B Items: 0	101125F		Other Relate	d Program El	ements: N/A		
Line Item MDAP/MAIS Code: 468												
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (Units in Each)	280	593	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	172.831	55.531	35.634	2.709	-	2.709	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	11.239	0.242	0.000	0.000	-	0.000	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	161.592	55.289	35.634	2.709	-	2.709	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	65.413	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	227.005	55.289	35.634	2.709	-	2.709	-	-	-	-	-	-
(The following	g Resource Sum	mary rows are fo	or informational p	ourposes only. Th	ne correspondin	g budget request	s are document	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	0.617	0.094	-	-	-	-	-	-	-	-	-	-

Description:

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 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.

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

1.685M in Prior Years (FY16) advance procurement funds were not subtracted in a subsequent year, thereby causing the total Less PY Advance Procurement figure to be in error by 1.685M in the Resource Summary table; this error carries across to the Total column. The Total Obligation Authority for 3011 funds should be 321.121M.

Due to a database transfer error, the FY2020 column data on the P-40 Resource Summary table are incorrect. FY2020 should read:

- Gross/Weapons System Cost: 108.262M
- Less PY Advance Procurement: 52.489M
- Net Procurement: 55.773M
- Plus CY Advance Procurement: 0.000M
- Total Obligation Authority: 55.773M

Exhibit P-40, Budget Line Item Justification	n: PB 2022 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget S 3011F: Procurement of Ammunition, Air Force Bombs		P-1 Line Item Num 354040 / B-61	nber / Title:
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code I	3 Items: 0101125F	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 468			
Due the aforementioned database transfer error, Gross/	Weapon System Cost data does not match Re	esource Summary data.	
The Hardware Recurring B61 End Item (TKA) and Hardware	ware Recurring B61 TKA Trainers "Include in I	P5A" checkmark is selected t	to ensure delivery totals will be accurately reflected on the P-21 exhibits.

Exhibit P-40, Budget Line Item Justification: PB 202)22 Air	Force	e				Date: M	ay 2021						
Appropriation / Budget Activity / Budget Sub Activi 3011F: Procurement of Ammunition, Air Force / BA 01: Bombs		unitic	on / B	-	P-1 Line Item Nu 354040 / B-61	mber / Title:								
O Code (A=Service Ready, B=Not Service Ready): B Program Elements for Code B Items: 0101125F Other Related Program Elements: N/A														
Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total					
	exhibits	ID M	DAP/ IAIS Sode	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)								
P-5 B-61 P-5a, P P-40 Total Gross/Weapon System Cost	P-21	В		280 / 172.831	593 / 55.531 593 / 55.531	- / 35.634 - / 35.634	- / 2.709	- / -	- / 2.709 - / 2.709					
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rou		nunition	; and/o				- 72.709		- 72.709					

Justification:

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

Fiscal Year 2021/2022 funds will be applied to contract closeout costs, non-recurring costs for transition to sustainment, ancillary equipment such as bomb assembly trainers purchased from DoE/NNSA, and program management administration costs.

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The corresponding budget requests are documented elsewhere. 0.000 0.000 0.000 Cost (\$ in Millions) Total (\$ in Millions) Total Cost (\$ in Millions) (\$ Mill Cost (\$ in Millions) Quit Cost (\$ in Millions) Total Cost (\$ in Millions) Total Cost</td><td>354040 / B-61 MDAP/MAIS Code: esource Summary Prior Years FY 2020 FY 2021 FY 2022 Bat s in Bain 280 593 - <</td><td>Image: stand of the stand</td><td>Bit Add 0 / B-61 B-61 Bestorie Resulty : B MDAP/MAIS Code: esource Summary Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 Gas at (3 in Milliona) 172.831 55.531 35.634 2.709 at (3 in Milliona) 11238 0.242 0.000 0.000 informational (5 in Milliona) 0.55.31 35.634 2.709 ent (5 in Milliona) 0.55.238 36.634 2.709 ent (6 in Milliona) 0.55.71 0.242 0.000 0.000 ent (6 in Milliona) 0.55.71 0.242 0.000 0.000 ent (6 in Milliona) 0.55.71 0.242 0.000 0.000 ent (6 in Milliona) 0.001 0.000 0.000 0.000 0.000 et (5 in Milliona) 0.001 0.003 0.000 0.000 0.000 et (6 in Milliona) 0.003 0.000 0.000 0.000 0.000 0.000 et (6 in Milliona) Et (7 2020 Et (7 2020 Et (7 2020 <t< td=""><td>Bit Standa 0 / B-61 B-61 Benomical Busines Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 COO Bit Bank 172.831 55.531 35.634 2.709 - Batt (B m Millona) 112.39 0.242 0.000 0.000 - - Batt (B m Millona) 112.39 0.242 0.000 0.000 - - Batt (B m Millona) 112.39 0.242 0.000 0.000 0.000 - - Batt (B m Millona) 112.39 0.242 0.000 0.000 0.000 - - Batt (B m Millona) 112.39 0.242 0.000<</td><td>Image: bit is a start of the source Summary Prior Years FY 2020 FY 2021 FY 2022 Set Y 2022 OC FY 2020 OC FY 2022 OC FY 202</td></t<></td></th<> | Image: stand Service Ready): B MDAP/MAI: esource Summary Prior Years FY 2020 FY as in Each) 280 593 5531 st (s in Millions) 117.2.831 55.531 55.289 ment (s in Millions) 161.592 55.289 55.289 e following Resource Summary rows are for informational purposes only. The corresponding budget requests are docum 0.000 0.000 t Cost (s in Millions) 0.617 0.094 1 unit Cost (s Millions) Cost (s Millions) 0.617 0.094 unit Cost (s Millions) Cost (s Millions) 0.000 0.000 0.000 0.232 206 47.852 | 354040 / B-61 MDAP/MAIS Code: esource Summary Prior Years FY 2020 FY 2021 sin Each 280 5533 | INDEP/MAIS Code: MDAP/MAIS Code: esource Summary Prior Years FY 2020 FY 2021 FY 2021 a in Each) 280 593 - a in Each) 280 593 - a in Each) 172.831 55.531 35.634 nent (\$ in Millions) 11.239 0.242 0.000 MIMORY A fight for the formational purposes only. The corresponding budget requests are documented elsewhere. 0.000 0.000 0.000 Cost (\$ in Millions) Total (\$ in Millions) Total Cost (\$ in Millions) (\$ Mill Cost (\$ in Millions) Quit Cost (\$ in Millions) Total Cost (\$ in Millions) Total Cost | 354040 / B-61 MDAP/MAIS Code: esource Summary Prior Years FY 2020 FY 2021 FY 2022 Bat s in Bain 280 593 - < | Image: stand of the stand | Bit Add 0 / B-61 B-61 Bestorie Resulty : B MDAP/MAIS Code: esource Summary Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 Gas at (3 in Milliona) 172.831 55.531 35.634 2.709 at (3 in Milliona) 11238 0.242 0.000 0.000 informational (5 in Milliona) 0.55.31 35.634 2.709 ent (5 in Milliona) 0.55.238 36.634 2.709 ent (6 in Milliona) 0.55.71 0.242 0.000 0.000 ent (6 in Milliona) 0.55.71 0.242 0.000 0.000 ent (6 in Milliona) 0.55.71 0.242 0.000 0.000 ent (6 in Milliona) 0.001 0.000 0.000 0.000 0.000 et (5 in Milliona) 0.001 0.003 0.000 0.000 0.000 et (6 in Milliona) 0.003 0.000 0.000 0.000 0.000 0.000 et (6 in Milliona) Et (7 2020 Et (7 2020 Et (7 2020 <t< td=""><td>Bit Standa 0 / B-61 B-61 Benomical Busines Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 COO Bit Bank 172.831 55.531 35.634 2.709 - Batt (B m Millona) 112.39 0.242 0.000 0.000 - - Batt (B m Millona) 112.39 0.242 0.000 0.000 - - Batt (B m Millona) 112.39 0.242 0.000 0.000 0.000 - - Batt (B m Millona) 112.39 0.242 0.000 0.000 0.000 - - Batt (B m Millona) 112.39 0.242 0.000<</td><td>Image: bit is a start of the source Summary Prior Years FY 2020 FY 2021 FY 2022 Set Y 2022 OC FY 2020 OC FY 2022 OC FY 202</td></t<> | Bit Standa 0 / B-61 B-61 Benomical Busines Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 COO Bit Bank 172.831 55.531 35.634 2.709 - Batt (B m Millona) 112.39 0.242 0.000 0.000 - - Batt (B m Millona) 112.39 0.242 0.000 0.000 - - Batt (B m Millona) 112.39 0.242 0.000 0.000 0.000 - - Batt (B m Millona) 112.39 0.242 0.000 0.000 0.000 - - Batt (B m Millona) 112.39 0.242 0.000< | Image: bit is a start of the source Summary Prior Years FY 2020 FY 2021 FY 2022 Set Y 2022 OC FY 2020 OC FY 2022 OC FY 202 |

Exhibit P-5, Cost	Analysis	s: PB 20	22 Air F	orce										Date: M	ay 2021			
Appropriation / B 3011F / 01 / 13	udget A	ctivity /	Budget	Sub Acti	ivity:		-ine Iten 40 / B-6	n Numbe	r / Title:					Item Nu B-61	mber / 1	Title [DOI	DIC]:	
D Code (A=Service Read	ly, B=Not Servi	ice Ready):	В						M	DAP/MAIS	S Code:							
Note: Subtotals or Totals i	n this Exhibit	P-5 may no	t be exact c	or sum exactl	y due to rou	nding.			I									
	F	Prior Years	3		FY 2020			FY 2021		F۱	Y 2022 Ba	se	F	Y 2022 OC	0	F١	7 2022 Tot	al
Cost Elements	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Test Equipment (SATS)	-	-	2.726	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
T&H Gear	-	-	14.765	-	-	1.500	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	78.476	-	-	19.451	-	-	5.280	-	-	-	-	-	-	-	-	-
Subtotal: Ancillary Equipment - B61 Cost	-	-	78.916	-	-	21.536	-	-	5.280	-	-	-	-	-	-	-	-	-
Support - B61 Cost														,				
PMA	-	-	3.663	-	-	0.148	-	-	2.433	-	-	2.644	-	-	-	-	-	2.644
NWC Mission Support	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
System T&E	-	-	0.092	-	-	5.003	-	-	15.389	-	-	0.065	-	-	-	-	-	0.065
Training	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
Production Sustaining Engineering	-	-	2.784	-	-	2.716	-	-	0.000	-	-	-	-	-	-	-	-	-
Subtotal: Support - B61 Cost	-	-	6.539	-	-	7.867	-	-	17.822	-	-	2.709	-	-	-	-	-	2.709
Gross/Weapon System Cost	0.617	280	172.831	0.094	593	55.531	-	-	35.634	-	-	2.709	-	-	-	-	-	2.709

Remarks:

A 5M ATR was being processed in May 2021, as part of the FY20 AF Omnibus request. Funds are currently held in the System T&E line and will be withdrawn in FY21/Q3.

1.685M in Prior Years (FY16) advance procurement funds were not subtracted in a subsequent year, thereby causing the total Less PY Advance Procurement figure to be in error by 1.685M in the Resource Summary table; this error carries across to the Total column. The Total Obligation Authority for 3011 funds should be 321.121M.

Due to a database transfer error, the FY2020 column data on the P-40 Resource Summary table are incorrect. FY2020 should read:

- Gross/Weapons System Cost: 108.262M

- Less PY Advance Procurement: 52.489M

- Net Procurement: 55.773M

- Plus CY Advance Procurement: 0.000M

- Total Obligation Authority: 55.773M

Due the aforementioned database transfer error, Gross/Weapon System Cost data does not match Resource Summary data.

The Hardware Recurring B61 End Item (TKA) and Hardware Recurring B61 TKA Trainers "Include in P5A" checkmark is selected to ensure delivery totals will be accurately reflected on the P-21 exhibits.

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procuremen	t Hi	story a	n d Planning: PB 2022 A	ir Fo	orce				Date	May 202	1		
Appropriation / Budget A 3011F / 01 / 13	ctivi	ity / Buo	•		Line Item Num 1040 / B-61	iber / Title:			Item B-61	Number /	Title	[DODIC]:	
Cost Elements	0 C 0	FY	Contractor and Location		Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
Hardware End Item (TKA) ^(†)		2020	Boeing / Various		SS / FPIF	Eglin AFB	Jun 2020	Aug 2021	548	0.037	N	Feb 2019	Dec 2017
TKA Trainers ^(†)		2020	Boeing / Various		SS / FPIF	Eglin AFB	Jun 2020	Mar 2021	45	0.007	N	Feb 2019	Oct 2017

^(†) indicates the presence of a P-21

Remarks:

The hardware end items consist of 544 Lot 2 TKAs. The TKA Trainers consist of 45 Trainers and 4 cutaway Trainers.

Ex	hibit	P-21, Pro	oducti	ion Sc	hedu	le: Pl	B 202	2 Air	Force														Date	e: Ma	y 202	1				
A p 30	opropi 11F /	r iation / 01 / 13	Budge	et Acti	vity /	Bud	get Si	ub Ac	ctivity	:		Line 1040 /		Num	ber /	Title:							Item B-61		nber /	Title	[DOD	DIC]:		
		Cost E (Units i	lements in Each)					_			Fiscal Y	'ear 2020								-	1		Fiscal Y							B A
	м			ACCEPT PRIOR	BAL			1				1		Calendar	Year 202	20			1	1			[Caler	ndar Year	2021				L
0 C 0	R	SERVICE	PROC QTY	TO 1 OCT 2019	DUE AS OF 1 OCT	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	N C E
На	rdware En	d Item (TKA)				1	1					1								1										
		eliveries: 206																												
	1 2020		548	0	548									Α-	-	-	-	-	-	-	-	-	-	-	-	-	-	92	-	456
	A Trainers	eliveries: 74																												
	2 2020		45	0	45								-	Α-	-	-	-	-	-	-	-	-	12	-	-	33				0
		1	1	1	1	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	J U L	A U G	S E	O C T	N O V	D E	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	
						Т	V	С	N	В	R	R	Y	N	L	G	Р	Т	v	С	N	В	R	R	Y	N	L	G	Р	
L																														

	nidit i	P-21, Production Schedule: PB 2022 Air Force riation / Budget Activity / Budget Sub Activity: P-1 Line Item Numbe																					Date	e: Ma	y 202	1				
		i ation / I 01 / 13	Budge	et Acti	vity /	Budg	get Su	ıb Act	ivity:			Line 040 /			ber /	Title:							lten B-61		nber /	Title	[DO[DIC]:		
		Cost El (Units i	lements in Each)	1						l	Fiscal Y	ear 2022											Fiscal Y	'ear 2023						B A
				ACCEPT PRIOR	BAL								c	alendar	Year 202	22								Caler	ndar Year	r 2023	1			L A
N 0 F C F 0 #	र	SERVICE	PROC QTY	TO 1 OCT 2021	DUE AS OF 1 OCT	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	N C E
		l Item (TKA)								1		1	L		1	1	1				1	1	1		1	1	1	<u> </u>		
		eliveries: 206	1	1					1			1		r	T															
	1 2020	AF	548	92	456	-	-	146	-	120	-	-	-	186																4
	Trainers	eliveries: 74																												
	2 2020		45	45	0																									0
		1				0	N O	DE	J A	F E	M A	A	M	J	J U	A U	S E	O C T	N O	D E	J	F	M	A P	M	J	J U	A U	S E	5
						C T	v	E C	A N	В	R	P R	A Y	Ň	Ľ	G	P	Ť	o V	Ċ	A N	В	A R	R	A Y	N	Ľ	Ğ	E P	

Ex	hibit P-21, Productior	n Schedule: F	PB 2022 Air F	orce						D	ate: May 2021		
	propriation / Budget /	Activity / Buo	dget Sub Act	-	P-1 Line Item 354040 / B-61	Number / 1	Fitle:				em Number / -61	Title [DODIC]:
		Produc	tion Rates (Each /	Month)				I	Procurement Le	adtime (Months			
MFF						I	nitial				Rec	rder	
Ref #	Manufacturer Name - Location	MSR For 2022	1-8-5 For 2022	MAX For 2022	ALT Prior to Oct 1	ALT After Oct 1	Manufacturin PLT	g	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
	Boeing - Various	544	550	550	0		0	0	0		0 9	14	23
:	Boeing - Various	45	50	50	0		0	0	0		0 9	9	18

Remarks:

The hardware end items consist of 544 Lot 2 TKAs. The TKA Trainers consist of 45 Trainers and 4 cutaway Trainers.

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

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

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Exhibit P-40, Budget Line Item	Justificatio	n: PB 2022	Air Force						Date: N	lay 2021					
Appropriation / Budget Activity 3011F: Procurement of Ammunitio Items				/ BSA 15: C	1	L ine Item N 00 / Cad/Pa		tle:							
ID Code (A=Service Ready, B=Not Service Ready):	A		Program Ele	ments for Co	de B Items: N	I/A		Other Relate	d Program El	ements: N/A					
Line Item MDAP/MAIS Code: N/A															
Prior Resource SummaryPrior YearsFY 2020FY 2021FY 2022FY 2022FY 2022FY 2022FY 2023FY 2023FY 2024FY 2025FY 2026To CompleteTo and															
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	-	56.482	47.830	47.210	-	47.210	-	-	-	-	-	-			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	-	56.482	47.830	47.210	-	47.210	-	-	-	-	-	-			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	-	56.482	47.830	47.210	-	47.210	-	-	-	-	-	-			
(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget requests	s are document	ed elsewhere.)							
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			

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-136, OC-135, QF-16, RC-135, T-1, T-6, T-38, TE-8, 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.

Exhib	pit P-40, Budget Line Item Justification:	PB 2022 Ai	r Fo	rce				Date: Ma	ay 2021						
	opriation / Budget Activity / Budget Sub -: Procurement of Ammunition, Air Force /		mun	ition / I		P-1 Line Item Nu 355100 / Cad/Pac									
ID Cod	D Code (A=Service Ready, B=Not Service Ready): A Program Elements for Code B Items: N/A Other Related Program Elements: N/A														
Line It	e Item MDAP/MAIS Code: N/A														
	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total					
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)					
P-40a	Cad/Pad				- / -	- / 56.482	- / 47.830	- / 47.210	- / -	- / 47.210					
P-40	Total Gross/Weapon System Cost				- / -	- / 56.482	- / 47.830	- / 47.210	- / -	- / 47.210					
*Title re	presents 1) the Number / Title for Items; 2) the Number / Title	le [DODIC] for An	nmuni	ition; and/	or 3) the Number / Title	e (Modification Type) for N	Modifications. Title repre	sents the P-40a Title wh	en only the P-40a Sumr	nary/Total is shown.					
Note: To	otals in this Exhibit P-40 set may not be exact or sum exactly	y due to rounding													

Justification:

FY2022 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.

Exhibit P-40a, I	Bud	get l	tem Jus	tificatio	n For A	ggregat	ed Iter	ns: PB 20	022 Air F	orce			_		[Date: Ma	y 2021			
Appropriation / 3011F / 01 / 15	Bu	dget	Activity	/ Budg	et Sub	Activity:		P-1 Line 355100 /			Title:					Aggrega t Cad/Pad	ted Item	s Title:		
			P	rior Years	S		FY 2020)		FY 2021		FY	2022 Ba	se	F	Y 2022 OC	0	FY	2022 Tot	tal
ltem Number / Title [DODIC]	ID	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cos (\$ M)	t Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Jncategorized																				
BOMBER AIRCRAFT	A		-	-	-	-	-	6.000	-	-	7.000	-	-	7.515	-	-	-	-	-	7.51
CARGO AIRCRAFT	Α		-	-	-	-	-	12.000	-	-	13.000	-	-	6.900	-	-	-	-	-	6.900
FIGHTER AIRCRAFT	Α		-	-	-	-	-	8.869	-	-	10.000	-	-	3.303	-	-	-	-	-	3.303
TRAINING AIRCRAFT	A		-	-	-	-	-	22.413	-	-	11.000	-	-	12.893	-	-	-	-	-	12.893
COMMON EGRESS	A		-	-	-	-	-	5.000	-	-	4.000	-	-	11.422	-	-	-	-	-	11.422
COMMON LIFE SUPPORT ITEMS	A		-	-	-	-	-	2.000	-	-	2.680	-	-	3.005	-	-	-	-	-	3.005
COMMON MISC ITEMS	A		-	-	-	-	-	0.200	-	-	0.150	-	-	2.172	-	-	-	-	-	2.172
Subtotal: Uncategorized			-	-	-	-	-	56.482	-	-	47.830	-	-	47.210	-	-	-	-	-	47.210
Total			-	-	-	-	-	56.482	-	-	47.830	-	-	47.210	-	-	_	-	-	47.210

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	Justificatio	n: PB 2022	Air Force						Date: N	lay 2021					
Appropriation / Budget Activity 3011F: Procurement of Ammunitio Items				/ BSA 15: C		L ine Item N 50 / Explosi			(EOD)						
ID Code (A=Service Ready, B=Not Service Ready):	A		Program Ele	ments for Co	de B Items: N	I/A		Other Relate	d Program El	ements: N/A					
Line Item MDAP/MAIS Code: N/A															
Prior Resource SummaryPrior YearsFY 2020FY 2021FY 2022FY 2022FY 2022FY 2022FY 2023FY 2024FY 2025FY 2026To Complete															
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	-	6.182	6.232	6.151	-	6.151	-	-	-	-	-	-			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	-	6.182	6.232	6.151	-	6.151	-	-	-	-	-	-			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	-	6.182	6.232	6.151	-	6.151	-	-	-	-	-	-			
(The following	Resource Sum	mary rows are fo	r informational p	ourposes only. Th	ne corresponding	g budget request	s are document	ed elsewhere.)							
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			

Description:

Explosive Ordnance Disposal (EOD) materials support Civil Engineer, EOD, Security Forces Military Working Dogs, RED HORSE, Special Forces operations and training, and formal schools with demolition munitions. 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.

Exhib	it P-40, Budget Line Item Justification: Pl	3 2022 Aiı	Fo	rce				Date: Ma	ay 2021	
	priation / Budget Activity / Budget Sub A : Procurement of Ammunition, Air Force / B		nuni	ition / E		P-1 Line Item Nu 355450 / Explosiv		osal (EOD)		
ID Code	e (A=Service Ready, B=Not Service Ready): A m MDAP/MAIS Code: N/A	Pro	ograr	m Eleme	ents for Code B Iter	ms: N/A	Other R	elated Program Ele	ments: N/A	
Line ite	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)
	Explosive Ordnance Disposal (EOD)				- / -	- / 6.182	- / 6.232	- / 6.151	- / -	- / 6.151
P-40	Total Gross/Weapon System Cost				- / -	- / 6.182	- / 6.232	- / 6.151	- / -	- / 6.151
*Title rep	resents 1) the Number / Title for Items; 2) the Number / Title [[DODIC] for Am	muni	tion; and/	or 3) the Number / Title	e (Modification Type) for N	Iodifications. Title repres	ents the P-40a Title wh	en only the P-40a Summ	nary/Total is shown.
Note: Tot	tals in this Exhibit P-40 set may not be exact or sum exactly du	e to rounding.								

Justification:

FY2022 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.

Exhibit P-40a, I Appropriation / 3011F / 01 / 15		-					:	P-1 Line	Item Nu	mber / '		sposal (E	OD)		A	ate: Ma <u>y</u> ggregat xplosive	ed Item	ns Title: nce Dispo	sal (EO	 D)
			P	Prior Year	s		FY 2020)		FY 2021		FY	2022 Ba	se	F	Y 2022 OC	:0	FY	2022 Tot	al
Item Number / Title [DODIC]	ID CD		Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Jncategorized		1	(, ,	()			(/	(, ,	(,)	()	(1)	(, ,	(/	(, ,					()	
(AA62) 12 GAUGE M274 ULTRA CARTRIDGE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(M023) - CHARGE, DEMOLITION C4- M112	A		-	-	-	0.000	23,908	3 0.983	0.000	24,319	1.000	0.000	22,442	1.000	-	-	-	0.000	22,442	1.000
(M031) CHG DEMO TNT 1/2LB	A		-	-	-	-	-	-	-	-	-	0.000	50,637	1.193	-	-	-	0.000	50,637	1.193
(M097) INERT, NON- ELECTRIC CAP	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(M130) - CAP BLASTING ELECTRIC M6	A		-	-	-	0.000	8,276	6 0.300	0.000	8,276	0.300	-	-	-	-	-	-	-	-	-
(DWEC) CTG, MK 277 ENHANCED BLANK	A		-	-	-	-	-	-	-	-	-	0.000	2,786	0.010	-	-	-	0.000	2,786	0.010
(M131) - CAP, BLASTING NON- ELECTRIC-M7	A		-	-	-	0.000	20,713	3 0.500	0.000	20,713	0.500	-	-	-	-	-	-	-	-	-
(M456) - CORD ASBLY DETONATING	A		-	-	-	0.000	232,558	3 0.100	-	-	-	-	-	-	-	-	-	-	-	-
(M591) - DYNAMITE MILITARY M1 1LB BLOCK	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(M980) - DETA SHEET	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(M993) CHARGE, DEMO, C1.5 DETA SHEET .062	A		-	-	-	0.000	861	0.309	-	-	-	-	-	-	-	-	-	-	-	-
(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	Α		-	-	-	0.000	816	6 0.100	-	-	-	-	-	-	-	-	-	-	-	-
(MM52) DEMO ECT, MK144, 1200GPF	A		-	-	-	0.000	3,498	3 0.312	-	-	-	-	-	-	-	-	-	-	-	-
(MM53) - DEMO ECT, MK145, 2400GPF	A		-	-	-	0.000	1,058	3 0.200	0.000	1,058	0.200	0.000	1,432	0.100	-	-	-	0.000	1,432	0.100
(MM54) - EXPLOSIVE CUTTING TAPE	Α		-	-	-	0.000	5,389	0.500	0.000	2,156	0.200	-	-	-	-	-	-	-	-	-

ppropriation / 011F / 01 / 15	Bu	udget	t Activity	/ Budg	jet Sub	Activity:			Item Nu Explosiv			sposal (E	OD)			ggregat xplosive		i s Title: ice Dispo	sal (EO	D)
			P	rior Year	s		FY 2020			FY 2021		FY	2022 Bas	6e	F	Y 2022 OC	0	FY	2022 Tot	al
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
(M421) CHG DEMO SHPD M3A2 COMP B	A		-	-	-	-	-	-	-	-	0.200	0.001	247	0.200	-	-	-	0.001	247	0.20
(MM56) DETONATOR, PERCUSSION 175MS DELAY	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(MN07) - N/E 70FT DELAY SHOCK TUBE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(MN06) M14 SET UP, N/E CAP WITH TIME FUZE	A		-	-	-	0.000	15,638	0.152	-	-	-	0.000	25,489	0.300	-	-	-	0.000	25,489	0.30
(MN08) - IGNITER TIME BLASTING	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(MN23) - DEMO ECT, MK152, 900GPF (LHFLSC)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(MN82) - SEMTEX A	Α		-	-	-	0.000	3,348	0.100	-	-	-	-	-	-	-	-	-	-	-	
(MN85) - DYNAMITE, 75% AMMON NITRATE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(MN86) CAP, BLAST NON-ELEC W/200 FT MINI-TUBE M19	A		-	-	-	-	-	-	-	-	0.232	-	-	-	-	-	-	-	-	-
(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		-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	-
(SS01) - CTG, 50 CAL ELEC BLANK MK209 MOD 1	A		-	-	-	0.000	18,792	2.300	0.000	14,707	1.800	0.000	7,965	1.470	-	-	-	0.000	7,965	1.4
(M039) CHG DEMO 40LB CRATERING W/ WELL	A		-	-	-	-	-	-	-	-	0.100	-	-	-	-	-	-	-	-	
(M670) FUZE, BLASTING TIME	Α		-	-	-	0.000	882	0.120	-	-	-	0.000	211,290	0.131	-	-	-	0.000	211,290	0.13
(M420) CHG DEMO SHPD M2A4 15LB COMP B	A		-	-	-	-	-	-	-	-	1.400	0.002	726	1.394	-	-	-	0.002	726	1.3

Exhibit P-40a,	Bud	get l	tem Jus	tificatio	n For A	ggregat	ed Item	s: PB 2	022 Air F	orce					0	Date: Ma	y 2021			
Appropriation 3011F / 01 / 15	Bu	dget	Activity	/ Budg	et Sub	Activity:			Item Nu Explosiv			sposal (E	OD)			ggrega Explosive		i s Title: ice Dispo	osal (EO	D)
			P	rior Year	s		FY 2020			FY 2021		F۱	2022 Ba	se	F	Y 2022 OC	0	FY	2022 Tot	al
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
(M986) CHB, DEMOLITION C7 DETA SHEET 1.333	A		-	-	-	0.000	306	0.100	-	-	-	-	-	-	-	-	-	-	-	-
(YY34) - SHOCK TUBE	A		-	-	-	-	-	-	-	-	0.200	0.000	704	0.150	-	-	-	0.000	704	0.150
(M456) CORD ASSEMBLY, DETONATING	A		-	-	-	-	-	-	-	-	-	0.000	250,000	0.100	-	-	-	0.000	250,000	0.100
(M482) CONTNR SHAP CHRG, MK 7 MOD 6	A		-	-	-	-	-	-	-	-	-	0.000	719	0.030	-	-	-	0.000	719	0.030
(ML05) CUTTER, HE MK 24 MOD 0	A		-	-	-	-	-	-	-	-	-	0.000	272	0.050	-	-	-	0.000	272	0.050
(M981) CHARGE, DEMOLITION	A		-	-	-	-	-	-	-	-	-	0.000	898	0.020	-	-	-	0.000	898	0.020
PMA	Α		-	-	-	-	-	0.106	-	-	-	-	-	0.003	-	-	-	-	-	0.003
Subtotal: Uncategorized			-	-	-	-	-	6.182	-	-	6.232	-	-	6.151	-	-	-	-	-	6.151
Total			-	-	-	-	-	6.182	-	-	6.232	-	-	6.151	-	-	-	-	-	6.151

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	Justificatio	on: PB 2022	Air Force						Date: N	lay 2021					
Appropriation / Budget Activity 3011F: Procurement of Ammunitio Items				/ BSA 15: C		_ine Item N 000 / Spares									
ID Code (A=Service Ready, B=Not Service Ready):	A		Program Eler	ments for Co	de B Items: N	/A		Other Relate	d Program El	ements: N/A					
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code: N/A Prior FY 2022 FY 2022 FY 2022 FY 2022 To														
Prior Resource SummaryPrior YearsFY 2020FY 2021FY 2022FY 2022FY 2022FY 2022FY 2023FY 2024FY 2024FY 2025FY 2026To CompleteTo Total															
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	-	0.533	0.542	0.535	-	0.535	-	-	-	-	-	-			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	-	0.533	0.542	0.535	-	0.535	-	-	-	-	-	-			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	-	0.533	0.542	0.535	-	0.535	-	-	-	-	-	-			
(The following	g Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne correspondin	g budget request	s are document	ed elsewhere.)							
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			

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:

FY2022 funds are used for 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 reparable 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 Ordinance 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	Justificatio	n: PB 2022	Air Force						Date: M	lay 2021					
Appropriation / Budget Activity 3011F: Procurement of Ammunitio Items				/ BSA 15: C		Line Item N 170 / Modific		le:							
ID Code (A=Service Ready, B=Not Service Ready):	A		Program Ele	ments for Co	de B Items: N	/A		Other Relate	d Program El	ements: N/A					
Line Item MDAP/MAIS Code: N/A															
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total			
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	-	1.291	1.310	0.292	-	0.292	-	-	-	-	-	-			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions) Output 1.291 1.310 0.292 Output Out															
lus CY Advance Procurement (\$ in Millions)															
Total Obligation Authority (\$ in Millions) - 1.291 1.310 0.292 - 0.292 -															
(The following															
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Description: -The FY 2022 funding request was reduce This budget line encompasses both new a which correct material or other deficiencie The Air Force procures munitions to main stockpiles as required and receive test an Funds may be used to address production electronic components used commercially Funding for this exhibit contained in PE 02 Justification:	and on-going r es and can be tain appropria d training alloo n Diminishing l y and in short s	nodification eff used to add or te quantities in cations annual Manufacturing	forts for guidec remove capat the War Rese ly based on cu Sources/Mate	l bomb and mu bility. Safety m prve Materiel (\ rrent-year requ rial Shortages.	unitions syster odifications co NRM) munition uirements. /Obsolescence	ns. Permanent prrect deficienci ns and test and e issues throug	ies which may d training stock gh studies, bric	create person cpiles. Active, (lge buys, life o	nel, system, o	r equipment h serve compon	azards. ents draw from t	the WRM			
The FY2022 funding request is a low cost	t mod for guide	ed bomb and m	nunitions syste	ms that reflect	s estimated co	osts based on l	historical fundi	ng requiremer	its and project	ed future requ	irements.				

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Exhibit P-40, Budget Line Item	Justificatio	n: PB 2022	Air Force						Date: N	lay 2021					
Appropriation / Budget Activity 3011F: Procurement of Ammunition Items				/ BSA 15: C		Line Item N 90 / Items L									
ID Code (A=Service Ready, B=Not Service Ready):	A		Program Elei	nents for Co	de B Items: N	/A		Other Relate	d Program El	ements: N/A					
Line Item MDAP/MAIS Code: N/A															
Prior Resource SummaryPrior YearsFY 2020FY 2021FY 2022FY 2022FY 2022FY 2022FY 2023FY 2024FY 2025FY 2026To CompleteTo Total															
rocurement Quantity (Units in Each)															
Gross/Weapon System Cost (\$ in Millions)	-	1.720	4.753	9.164	-	9.164	-	-	-	-	-	-			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	-	1.720	4.753	9.164	-	9.164	-	-	-	-	-	-			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	-	1.720	4.753	9.164	-	9.164	-	-	-	-	-	-			
(The following	g Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	g budget request	s are document	ed elsewhere.)							
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			

Description:

-The FY2022 funding request was reduced by \$3.381m to account for the availability of prior year execution balances.

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 Materie (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 and are code A.

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

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

Exhib	it P-40, Budget Line Item Justification: P	B 2022 Aiı	⁻ Foi	rce				Date: Ma	ay 2021						
	priation / Budget Activity / Budget Sub A					P-1 Line Item Nu									
3011F Items	: Procurement of Ammunition, Air Force / B	A 01: Amr	nuni	ition / E	3SA 15: Other	355990 / Items Le	ess Than \$5,000,0	000							
ID Code	e (A=Service Ready, B=Not Service Ready): A	Pro	ogran	n Eleme	ents for Code B Iter	ms: N/A	Other R	elated Program Ele	ments: N/A						
Line Ite	tem MDAP/MAIS Code: N/A														
	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total					
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)								
P-40a	Items Less Than \$5,000,000				- / -	- / 1.720	- / 4.753	- / 9.164	- / -	- / 9.164					
P-40	Total Gross/Weapon System Cost				- / -	- / 1.720	- / 4.753	- / 9.164	- / -	- / 9.164					
*Title rep	resents 1) the Number / Title for Items; 2) the Number / Title [I	DODIC] for Am	munit	tion; and/	or 3) the Number / Title	e (Modification Type) for M	Iodifications. Title repres	ents the P-40a Title wh	en only the P-40a Summ	nary/Total is shown.					
Note: Tot	tals in this Exhibit P-40 set may not be exact or sum exactly du	ue to rounding.													

Justification:

FY2022 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.

Exhibit P-40a, Budget Item Justification For Aggregated Ite Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 15									P-1 Line Item Number / Title: 355990 / Items Less Than \$5,000,000								Date: May 2021 Aggregated Items Title: Items Less Than \$5,000,000					
			Prior Years		FY 2020				FY 2021		FY 2022 Base		FY 2022 OCO		0	FY 2022 Total		al				
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)		
Uncategorized				. ,			. ,			. ,			. ,									
IMEA	Α		-	-	-	-	-	-	-	-	-	-	-	4.475	-	-	-	-	-	4.475		
(J007) Claymore	Α		-	-	-	-	-	-	-	-	-	0.001	4,471	4.002	-	-	-	0.001	4,471	4.002		
(HB25) LAW Rockets	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
(YW33) Smokey Sams	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
(G870) FZE HAND GRN PRACTICE	A		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-		
(G878) FUZE, GRENADE HAND, PRAC	A		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-		
(G881) GRN, HAND PRAC M228	A		-	-	-	0.000	4,179	0.200	-	-	-	-	-	-	-	-	-	-	-	-		
(G940) GRENADE, SMOKE, GREEN M18	A		-	-	-	0.000	4,319	0.273	-	-	0.450	-	-	-	-	-	-	-	-	-		
(G945) GRENADE, SMOKE, YELLOW	A		-	-	-	0.000	2,259	0.150	-	-	0.150	-	-	-	-	-	-	-	-	-		
(G950) GRENADE, SMOKE, RED	Α		-	-	-	0.000	4,851	0.337	-	-	0.400	-	-	-	-	-	-	-	-	-		
(G955) GRENADE, SMOKE, VIOLET M18	Α		-	-	-	0.000	5,072	2 0.348	-	-	1.500	-	-	-	-	-	-	-	-	-		
(GG04) GRENADE, NON-LETHAL MODEL 9590	A		-	-	-	0.000	747	0.025	-	-	0.199	-	-	-	-	-	-	-	-	-		
(G982) GRENADE, HAND, SMOKE, M83	A		-	-	-	0.000	665	5 0.020	-	-	-	-	-	-	-	-	-	-	-	-		
(GG09) GRENADE, HAND NON-LETHAL	A		-	-	-	-	-	0.000	-	-	0.750	-	-	-	-	-	-	-	-	-		
(KM02) PEPPER SPRAY, POCKET	Α		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-		
(L594) SIMULATOR, GROUND BURST M115A2	A		-	-	-	0.000	4,785	5 0.125	-	-	-	-	-	-	-	-	-	-	-	-		
(L601) SIMULATOR, HAND GRENADE M116A1	A		-	-	-	0.000	10,808	3 0.241	-	-	0.250	-	-	-	-	-	-	-	-	-		
SIMULATOR BOOBY TRAP M117	A		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-		
(GG36) GRENADE, MK20 FLASH NONLETHAL	A		-	-	-	-	-	0.000	-	-	0.421	-	-	-	-	-	-	-	-	-		
(LA51) SIMULATOR, SMALL ARMS FIRE	Α		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-		
(LA52) SIMULATOR, SMALL ARMS FIRE	Α		-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-		

Appropriation / E							15: PB 20								ate: Mag	-			
011F / 01 / 15	Budge	t Activity	/ Budg	et Sub .	Activity:		P-1 Line				000			A	ggregat	t <mark>ed Iten</mark> s Than	n <mark>s Title:</mark> \$5,000,00	າດ	
0111701713		P	rior Years	;	FY 2020			Items Less Than \$5,000			FY 2022 Base				Y 2022 OC			FY 2022 Total	
Item Number / II	MDAP/	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Tota Cos
	D Code	(\$ M)	(Each)	(\$ M)	(\$ M)	(Each)	(\$ M)	(\$ M)	(Each)	(\$ M)	(\$ M)	(Each)	(\$ M)	(\$ M)	(Each)	(\$ M)	(\$ M)	(Each)	(\$ N
NUCLEAR A TRAINERS	A	-	-	-	-	-	0.000	-	-	0.633	0.000	687,000	0.687	-	-	-	0.000	687,000	0
	A	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	
ubtotal: Uncategorized		-	-	-	-	-	1.720	-	-	4.753	-	-	9.164	-	-	-	-	-	S
otal		-	-	-	-	-	1.720	-	-	4.753		-	9.164	-	-	-		-	9

Exhibit P-40, Budget Line Item	Justificatio	n: PB 2022	Air Force						Date: N	lay 2021		
Appropriation / Budget Activity 3011F: Procurement of Ammunition				/ BSA 16: F		ine Item N 10 / Flares	umber / Tit	ile:				
ID Code (A=Service Ready, B=Not Service Ready):		Program Ele	ments for Cod	de B Items: N	/A		Other Relate	d Program El	ements: N/A			
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	-	139.388	61.259	95.297	-	95.297	-	-	-	-	-	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)	-	139.388	61.259	95.297	-	95.297	-	-	-	-	-	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	-	139.388	61.259	95.297	-	95.297	-	-	-	-	-	
(The following	g Resource Sum	mary rows are fo	r informational p	urposes only. Th	e corresponding	g budget request	s are document	ed elsewhere.)	Ŷ	÷		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	- [
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	

Description:

-FY2020 funding totals include \$103.272M appropriated for Overseas Contingency Operations. -FY2021 funding totals include \$21.171M appropriated for Overseas Contingency Operations. -FY2022 funding totals include \$18.578M requested for Direct War and/or Enduring Requirements.

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

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

Exhibit P-40, Budget Line Item Justification: PB 202	2 Air Force		Date: May 2021
Appropriation / Budget Activity / Budget Sub Activit 3011F: Procurement of Ammunition, Air Force / BA 01:		P-1 Line Item Number / Title: 356010 / Flares	
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Ite	ems: N/A Ot	her Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		· · · · ·	
-(LA36) MJU-62 Flare is a multi-spectral countermeasure designed to require a 1 inch by 2 inch by 8 inch flare size to accommodate desire through USAF.			
-(LA61) MJU-66 decoy Countermeasure Flare is an improved versior and is being evaluated for other aircraft. It is a one-piece aluminum c dispenser. When deployed into the air stream, the special material re	ase containing a payload of advance	d special material elements, loaded into	o a multiple jettison unit magazine installed on a countermeasure
-(LA66) MJU-61 is an infrared countermeasure flare used by F-35 air through the Navy PMA-272.	craft against heat seeking missiles. T	he MJU-61 will replace the M206 in FY	24 and will be used on multiple aircraft. This item is procured
-(LA67) MJU-71 IR Flare is a magnesium based thrusted flare used i inch size provides better protection of the aircraft and flight crew. Oth approved for use on the C-130, A-10 and F-16 aircraft with on-going	er versions of thrusted flares are larg	er and use more space in the flare disp	pensers, severely limiting the number of ejection events. Initially
-(LA68) MJU-68 Flare is a magnesium based countermeasure and w used for combat only. This item is procured through Navy PMA-272.	ras developed specifically for and only	y used on the F-35/JSF aircraft to provid	de protection from advanced infrared threat missiles. This item is
-(LA76) MJU-73 is a spectral flare that is used in a cocktail mix of 1 for and is expected to be qualified on several fixed-wing aircraft in the ne	•	a	hreats. This 1x1x8 inch sized flare is primarily used on the HH-60,
-(LA78) XM219 is a bundled flare that is used in a cocktail mix of 1 for pattern and is primarily used on the HH-60. This item is procured by		otection against heat-seeking missile th	nreats. This 1x1x8 inch sized flare provides a unique dispensing
-(LA84) MJU-52A/B Decoy is an infrared countermeasure decoy user factor mechanically dispensed from a BOL dispenser.	d by F-15 aircraft against heat seekin	g missiles. This item is procured throug	gh USAF and is sole source to Alloy Surfaces. It is an unique form
-(LA85) MJU-75 Flare is a magnesium base IR countermeasure. It co sealed cartridge cup. It is dispensed and ignited in flight by a BBU-35 the MJU-53, which is also replacing the MJU-10 and MJU-7. This ite	impulse cartridge. Used on C-17, C-		
-(LA88) MJU-76 Flare is a thrusted magnesium base IR countermeas finned aluminum flight body containing the flare grain with a molded I CCU-145 impulse cartridge. Used on C-17, C-130, and being evalua	PEEK nozzle and a weighted nose. T	he case uses a sealed cartridge cup a	nd the flare is dispensed and ignited in flight by a BBU-35 or
-(L580) MK-58 is a marine location marker consisting of an aluminum and flame emission and one for water to enter the MK72 Mod 1 seaw hermetically seals the battery. The adhesive foil seals are protected of	vater-activated battery. Adhesive foil of	discs hermetically seal the two emission	n holes. A reinforced adhesive foil strip with a rectangular pull ring
-(LY12) ALA-17C is an infrared countermeasure used by B-52 aircraf ALE-47 dispenser system which may eliminate the ALA-17 and provi	.	item is procured through the US Air For	rce Global Strike Command and is currently upgrading to the
-Items Less Than Five Million Dollars: All items have an annual procu	urement of less than 5,000,000 and a	re Code A.	

Exhibit P-40, Budget Line Item Justificatio	n: PB 2022 Air Force	Date: May 2021					
Appropriation / Budget Activity / Budget S 3011F: Procurement of Ammunition, Air Force	ub Activity:P-1 Line Item Nue / BA 01: Ammunition / BSA 16: Flares356010 / Flares	umber / Title:					
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							
These funds may also procure inventoried items which r as actual and planned expenditures will be addressed d		nerging basis. Variations to cover critical shortfalls to inventory objectives as well					
	Manufacturing Resources (DMS)/Material Shortages/Obsolescence issunshort supply; and, qualification activities to preserve future production	es through studies, bridge buys, life of type buys, supplier/parts replacement, to capabilities and capacities.					
In accordance with Section 1815 of the FY 2008 National defense missions, domestic emergency responses, and	al Defense Authorization Act (P.L. 110-181), this item is necessary for us providing military support to civil authorities.	se by the active and reserve components of the Armed Forces for homeland					
This program element may include necessary test or ev	aluation equipment required to assess Advanced Infrared Countermeas	ure weapons system capabilities.					
Funding for this exhibit contained in PEs: 0208030F and	1 0207599F.						

Exhibit P-40, Budget Line Item Justification: PB 2022 Air Force

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 16: Flares 356010 / Flares

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

Other Related Program Elements: N/A

Date: May 2021

Line Item MDAP/MAIS Code: N/A

	Exhibits Schedule		Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total		
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) / (\$ M)					
P-40a	(L410) M206 FLARE				- / -	- / 20.802	- / 7.250	- / -	- / -	- / -
P-40a	(L463) MJU-7A/B, IR FLARE				- / -	- / 8.000	- / -	- / -	- / -	- / -
P-40a	(L580) MK-58				- / -	- / 3.000	- / -	- / 0.750	- / -	- / 0.750
P-40a	(LA21) MJU-53/B IR CM FLARE				- / -	- / 36.692	- / 1.760	- / -	- / -	- / -
P-40a	(LA36) MJU-62/B IR CM FLARE				- / -	- / 3.807	- / 6.218	- / 1.500	- / -	- / 1.500
P-40a	(LA61) MJU-66 CM ACFT FLARE				- / -	- / 19.000	- / 2.880	- / 4.750	- / -	- / 4.750
P-40a	(LA66) MJU-61 IR CM FLARE				- / -	- /7.912	- / 7.500	- / 27.000	- / -	- / 27.000
P-40a	(LA68) MJU-68/B IR CM FLARE				- / -	- / 11.401	- / -	- / -	- / -	- / -
P-40a	(LA76) MJU-73 MTVR FLARE				- / -	- /4.184	- / 3.936	- / 1.500	- / -	- / 1.500
P-40a	(LA84) MJU-52 BOL/IR FLARE				- / -	- / -	- / -	- / 1.700	- / -	- / 1.700
P-40a	(LA85) MJU-75 Flare				- / -	- / 8.996	- / 19.965	- / 41.169	- / -	- / 41.169
P-40a	(LA88) MJU-76 Flare				- / -	- / 9.717	- / 8.000	- / 14.000	- / -	- / 14.000
P-40a	Flares (Items less than 5 Million)				- / -	- / 5.877	- / 3.750	- / 2.928	- / -	- / 2.928
P-40	Total Gross/Weapon System Cost				- / -	- / 139.388	- / 61.259	- / 95.297	- / -	- / 95.297

Justification:

FY2022 funds purchase countermeasures and flares 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. FY2022 funding totals include \$18.578M requested for Direct War and/or Enduring Requirements.

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

Exhibit P-40a, I	Buc	lget l	tem Jus	tificatio	on For A	ggregat	ed Iten	is: PB 20	022 Air F	orce					D	ate: May	y 2021			
Appropriation / 3011F / 01 / 16	Bu	udget	Activity	/ / Budg	jet Sub	Activity:		P-1 Line 356010 /		mber / 1	Fitle:					ggregat 410) M2				
			Р	rior Year	s		FY 2020			FY 2021		F۱	(2022 Ba	se	F	Y 2022 OC	:0	F۱	(2022 Tot	tal
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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																				
M206 FLARE - L410	Α		-	-	-	0.000	522,198	20.214	0.000	179,144	7.250	-	-	-	-	-	-	-	-	-
PRODUCTION ENGINEERING	A		-	-	-	-	-	0.585	-	-	-	-	-	-	-	-	-	-	-	-
QUALITY ASSURANCE	A		-	-	-	-	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	20.802	-	-	7.250	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	20.802	-	-	7.250	-	-	-	-	-	-	-	-	-

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

Remarks:

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

Exhibit P-40a, I	Bud	get l	tem Jus	tificatio	n For A	ggregat	ed Iten	is: PB 20)22 Air F	orce					D	ate: May	y 2021			
Appropriation / 3011F / 01 / 16	/ Bu	dget	Activity	/ Budg	et Sub /	Activity:		P-1 Line 356010 /		mber / '	Title:							ns Title: B, IR FLA	RE	
			Р	rior Years	S		FY 2020			FY 2021		F۱	′ 2022 Ba	se	F	Y 2022 OC	:0	F١	7 2022 Tot	tal
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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								'												
MJU-7A/B IR FLARE - L463	A		-	-	-	0.000	139,956	8.000	-	-	-	-	-	-	-	-	-	-	-	-
QUALITY ASSURANCE	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	8.000	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	8.000	-	-	-	-	-	-	-	-	-	-	-	-
Note: Subtotals or Tot	als in	this Ex	hibit P-40a ı	may not be	exact or su	m exactly, d	ue to roun	ding.												

Remarks:

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

Exhibit P-40a, I	Buc	lget l	tem Jus	tificatio	n For A	ggregate	ed Iten	1s: PB 20	022 Air F	orce					C	ate: Mag	y 2021			
Appropriation / 3011F / 01 / 16	Βι	udget	Activity	/ / Budg	et Sub	Activity:	I	P-1 Line 356010 /		imber /	Title:					ggregat _580) Mł		s Title:		
			P	rior Years	S		FY 2020			FY 2021		FY	2022 Bas	se	F	Y 2022 OC	:0	FY	2022 Tota	al
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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																				
MK-58 (L580)	Α		-	-	-	0.000	7,712	3.000	-	-	-	0.000	1,890	0.750	-	-	-	0.000	1,890	0.750
Subtotal: Uncategorized			-	-	-	-	-	3.000	-	-	-	-	-	0.750	-	-	-	-	-	0.750
Total Note: Subtotals or Tot	als i	n this Ex	- xhibit P-40a	- may not be	- exact or si	- Im exactly, du	- ie to roun	3.000 ding.	-	-	-	-	-	0.750	-	-	-	-	-	0.750

Exhibit P-40a, E	Bud	get l	tem Jus	tificatio	n For A	ggregat	ed Iten	ns: PB 20)22 Air F	orce					D	ate: May	y 2021			
Appropriation / 3011F / 01 / 16	Bu	dget	Activity	/ / Budg	et Sub	Activity:		P-1 Line 356010 /		imber / ⁻	Title:					.ggregat _A21) M.		ns Title: IR CM F	LARE	
	MDAP/ Total									FY 2021		FY	2022 Ba	se	F	Y 2022 OC	:0	FY	2022 Tot	al
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
UNCATEGORIZED										,										
(LA21) MJU-53/ B INFRARED COUNTERMEASURE FLARE	A		-	-	-	0.000	310,94	8 36.692	0.000	14,768	1.760	-	-	-	-	-	-	-	-	-
Subtotal: UNCATEGORIZ	ED		-	-	-	-	-	36.692	-	-	1.760	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	36.692	-	-	1.760	-	-	-	-	-	-	-	-	-

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

Remarks:

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

Exhibit P-40a, B	Bud	get l	tem Jus	tificatio	n For A	ggregat	ed Iten	1s: PB 20	022 Air F	orce					D	ate: Ma	y 2021			
Appropriation / 3011F / 01 / 16	Bu	dget	Activity	/ / Budg	et Sub	Activity:		P-1 Line 356010 /		mber / '	Title:					ggrega t _A36) M		s Title: IR CM F	LARE	
			Р	rior Years	s		FY 2020			FY 2021		F۱	(2022 Ba	se	F	Y 2022 OC	:0	FY	2022 Tot	al
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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												1								
(LA36) MJU-62 IR CM FLARE	Α		-	-	-	0.000	14,930	3.807	0.000	24,383	6.218	0.000	5,882	1.500	-	-	-	0.000	5,882	1.500
Subtotal: Uncategorized			-	-	-	-	-	3.807	-	-	6.218	-	-	1.500	-	-	-	-	-	1.500
Total			-	-	-	-	-	3.807	-	-	6.218	-	-	1.500	-	-	-	-	-	1.500

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

Remarks:

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

		Nygreyateu i	ems: PB 2	022 Air F	orce					D	ate: Mag	y 2021			
Appropriation / Budget Activity / E 3011F / 01 / 16	Budget Sub	Activity:	P-1 Line 356010 /		mber / ⁻	Title:					.ggregat _A61) M.		s Title: M ACFT	FLARE	
Prior	Years	FY 2	020		FY 2021		F۱	2022 Ba	se	F	Y 2022 OC	:0	FY	2022 Tot	al
	Aty Cost (\$ M)	Unit Cost Qi (\$ M) (Ea		Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Uncategorized	,	· · ·													
(LA61) MJU-66 Decoy A		0.000 17	2,446 19.000	0.000	25,880	2.880	0.000	42,262	4.750	-	-	-	0.000	42,262	4.750
Subtotal: Uncategorized -		-	- 19.000	-	-	2.880	-	-	4.750	-	-	-	-	-	4.750
Total -		-	- 19.000	-	-	2.880	-	-	4.750	-	-	-	-	-	4.750

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

Remarks:

The MJU-66 Decoy is procured through Navy PMA-272. The cost analysis is provided to the Navy with estimates obtained from industry based on quantity range matrices and forecasted cost of materials.

Exhibit P-40a, I	Bud	lget l	tem Jus	tificatio	n For A	ggregat	ed Item	s: PB 2	022 Air F	orce					[Date: Ma	y 2021			
Appropriation / 3011F / 01 / 16	Bu	ıdget	Activity	/ / Budg	et Sub	Activity:		-1 Line 56010 /	Item Nu Flares	imber / ˈ	Title:					Aggregat LA66) M		I S Title: R CM FLA	ARE	
	MDAP/ Total									FY 2021		FY	2022 Bas	se	F	Y 2022 OC	:0	FY	2022 Tota	al
ltem Number / Title [DODIC]	Item Number / ID MAIS Unit Cost Qty Cost Unit Cost								Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cos (\$ M)	t Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
(LA66) MJU-61 IR CM Flare	Α		-	-	-	0.000	113,139	7.912	0.000	106,188	7.500	0.000	378,493	27.000	-	-	-	0.000	378,493	27.000
Subtotal: Uncategorized			-	-	-	-	-	7.912	-	-	7.500	-	-	27.000	-	-	-	-	-	27.000
Total									-	-	7.500	-	-	27.000	-	-	-	-	-	27.000
Note: Subtotals or Tot	als ir	this Ex	xhibit P-40a	may not be	exact or su	ım exactly, d	ue to round	ling.												

Bud	get li	tem Jus	tificatio	on For A	ggregat	ed Iten	ns: PB 20)22 Air F	orce					D	ate: Ma	y 2021			
Bu	dget	Activity	/ / Budg	jet Sub	Activity:		-		imber / ˈ	Title:								LARE	
		Р	Prior Year	s		FY 2020)		FY 2021		FY	2022 Ba	se	F	Y 2022 OC	:0	FY	2022 Tot	tal
ID CD		Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
A		-	-	-	0.002	5,589	9 11.401	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	11.401	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	_	_	11 401	_	_	_		_	-	-	- I	-	-	-	-
	Bu	Budget MDAP/ ID MAIS CD Code	Budget Activity MDAP/ ID MAIS CD Code Unit Cost (\$ M)	Prior Year ID MDAP/ MAIS Code Unit Cost (\$ M) Qty (Each) A - - - - -	Prior Years ID MDAP/ ID MAIS Code Unit Cost (\$ M) Total Cost (\$ M) A - - - - - - -	Budget Activity / Budget Sub Activity: Budget Activity / Budget Sub Activity: ID MDAP/ MAIS Code Prior Years Unit Cost (\$ M) Qty (Each) Total Cost (\$ M) Unit Cost (\$ M) A - - 0.002 - - - -	Output Budget Activity / Budget Sub Activity: Budget Activity / Budget Sub Activity: MDAP/ ID CD Prior Years FY 2020 MAIS CD Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) A - - 0.002 5,588 - - - - -	Budget Activity / Budget Sub Activity: P-1 Line 356010 / ID CD MAIS Code Unit Cost (\$ M) Qty (Each) Total Cost (\$ M) Unit Cost (\$ M) Total Cost (\$ M) Unit Cost (\$ M) Total Cost (\$ M) A - - 0.002 5,589 11.401 - - - - 11.401	Budget Activity / Budget Sub Activity: P-1 Line Item Nu 356010 / Flares ID MAAP/ MAIS Code Prior Years FY 2020 ID MAIS Code Unit Cost (\$ M) Qty (Each) Total Cost (\$ M) Total Cost (\$ M) Total Cost (\$ M) Unit Cost (\$ M) Unit Cost (\$ M) Unit Cost (\$ M) Init Cost (\$ M) Total Cost (\$ M) Unit Cost (\$ M) Total Cost (\$ M) Unit Cost (\$ M) Init Cost (\$ M) <td>MDAP/ ID CD Unit Cost (S M) Qty (Each) Total Cost (S M) Unit Cost (S M) Total Cost (S M) Unit Cost (S M) Qty (Each) A - - 0.002 5,589 11.401 - - - - - - - 11.401 - -</td> <td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares MDAP/ ID CD Prior Years FY 2020 FY 2021 ID CD Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) A - - 0.002 5,589 11.401 - - - - - - 11.401 - -</td> <td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares ID MAAP/ MAIS Code Prior Years FY 2020 FY 2021 FY ID MAIS Code Unit Cost (\$ M) Qty (Each) Total Cost (\$ M) Unit Cost (\$ M) Unit Cost (\$ M) Unit Cost (\$ M) Unit Cost (\$ M) Init Cost (\$ M) Unit Cost (\$ M) Total Cost (\$ M) Unit Cost (\$ M) Unit Cost (\$ M) Init Cost (\$ M)<td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares ID MAAP/ MAIS Code Prior Years FY 2020 FY 2021 FY 2022 Ba ID MAIS Code Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Unit Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total (\$M) Init Cost (\$M) Qty (Each) Total (\$M) Init Cost (\$M) Qty (Each) Total (\$M) Init Cost (\$M) Qty (Each) Total (\$M) Init Cost (\$M) Qty (Each) Init Cost (\$M) In</td><td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base MDAP/ CD Unit Cost (\$M) Total (\$M) Cost (\$M) Unit Cost (\$M) Total Cost (\$M) A - - - - - - - A - - 0.002 5,589 11.401 - - - - - - - - 11.401 - - - - -</td><td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares A MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base F MDAP/ CD Unit Cost (\$ M) Qty (Each) Total Cost (\$ M) Unit Cost (\$ M) Unit Cost (\$ M) Init Cost (\$ M) Total Cost (\$ M) Total (\$ M) Init Cost (\$ M) Qty (Each) Total Cost (\$ M) Unit Cost (\$ M) Qty (Each) Total (\$ M) Unit Cost (\$ M) Qty (Each) Qty (\$ M)</td><td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Aggregate Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Aggregate MDAP/ Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OC MDAP/ Unit Cost (S M) Qty (Each) Total (S M) Unit Cost (S M) Qty (Each) Total Cost (S M) Unit Cost (S M) Qty (Each) Total (S M) Unit Cost (S M) Qty (Each) Total (S M) Unit Cost (S M) Qty (Each) Total (S M) Unit Cost (S M) Qty (Each) Total (S</td><td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares Aggregated Item (LA68) MJU-68/B MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OCO MDAP/ ID CD Unit Cost (\$M) Qty (Each) Total Cost (\$M) Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total (\$M) Total (\$M) Total Cost (\$M) Total Cost (\$M)<td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares Aggregated Items Title: (LA68) MJU-68/B IR CM F MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OCO FY MDAP/ CD Unit Cost (\$M) Qty (Each) Total (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (\$M) Total Cost (\$M) Qty (Each) Total Cost (\$M) Qty (\$Each) Total Cost (\$M) Qty (\$Each) Total Cost (\$M) Qty (\$Each) Qty (\$M)<td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares Aggregated Items Title: (LA68) MJU-68/B IR CM FLARE MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OCO FY 2022 To MDAP/ CD Mals (SM) Total (SM) Unit Cost (SM) Qty (Each) Total Cost (SM) Total (SM) Total (SM) Total (SM) Total (SM) Total (</td></td></td></td>	MDAP/ ID CD Unit Cost (S M) Qty (Each) Total Cost (S M) Unit Cost (S M) Total Cost (S M) Unit Cost (S M) Qty (Each) A - 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- - - - - - A - - 0.002 5,589 11.401 - - - - - - - - 11.401 - - - - -</td> <td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares A MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base F MDAP/ CD Unit Cost (\$ M) Qty (Each) Total Cost (\$ M) Unit Cost (\$ M) Unit Cost (\$ M) Init Cost (\$ M) Total Cost (\$ M) Total (\$ M) Init Cost (\$ M) Qty (Each) Total Cost (\$ M) Unit Cost (\$ M) Qty (Each) Total (\$ M) Unit Cost (\$ M) Qty (Each) Qty (\$ M)</td> <td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Aggregate Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Aggregate MDAP/ Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OC MDAP/ Unit Cost (S M) Qty (Each) Total (S M) Unit Cost (S M) Qty (Each) Total Cost (S M) Unit Cost (S M) Qty (Each) Total (S M) Unit Cost (S M) Qty (Each) Total (S M) Unit Cost (S M) Qty (Each) Total (S M) Unit Cost (S M) Qty (Each) Total (S</td> <td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares Aggregated Item (LA68) MJU-68/B MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OCO MDAP/ ID CD Unit Cost (\$M) Qty (Each) Total Cost (\$M) Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total (\$M) Total (\$M) Total Cost (\$M) Total Cost (\$M)<td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares Aggregated Items Title: (LA68) MJU-68/B IR CM F MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OCO FY MDAP/ CD Unit Cost (\$M) Qty (Each) Total (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (\$M) Total Cost (\$M) Qty (Each) Total Cost (\$M) Qty (\$Each) Total Cost (\$M) Qty (\$Each) Total Cost (\$M) Qty (\$Each) Qty (\$M)<td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares Aggregated Items Title: (LA68) MJU-68/B IR CM FLARE MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OCO FY 2022 To MDAP/ CD Mals (SM) Total (SM) Unit Cost (SM) Qty (Each) Total Cost (SM) Total (SM) Total (SM) Total (SM) Total (SM) Total (</td></td></td>	Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares ID MAAP/ MAIS Code Prior Years FY 2020 FY 2021 FY 2022 Ba ID MAIS Code Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Unit Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total (\$M) Init Cost (\$M) Qty (Each) Total (\$M) Init Cost (\$M) Qty (Each) Total (\$M) Init Cost (\$M) Qty (Each) Total (\$M) Init Cost (\$M) Qty (Each) Init Cost (\$M) In	Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base MDAP/ CD Unit Cost (\$M) Total (\$M) Cost (\$M) Unit Cost (\$M) Total Cost (\$M) A - - - - - - - A - - 0.002 5,589 11.401 - - - - - - - - 11.401 - - - - -	Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares A MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base F MDAP/ CD Unit Cost (\$ M) Qty (Each) Total Cost (\$ M) Unit Cost (\$ M) Unit Cost (\$ M) Init Cost (\$ M) Total Cost (\$ M) Total (\$ M) Init Cost (\$ M) Qty (Each) Total Cost (\$ M) Unit Cost (\$ M) Qty (Each) Total (\$ M) Unit Cost (\$ M) Qty (Each) Qty (\$ M)	Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Aggregate Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: Aggregate MDAP/ Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OC MDAP/ Unit Cost (S M) Qty (Each) Total (S M) Unit Cost (S M) Qty (Each) Total Cost (S M) Unit Cost (S M) Qty (Each) Total (S	Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares Aggregated Item (LA68) MJU-68/B MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OCO MDAP/ ID CD Unit Cost (\$M) Qty (Each) Total Cost (\$M) Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total Cost (\$M) Total (\$M) Total (\$M) Total Cost (\$M) Total Cost (\$M) <td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares Aggregated Items Title: (LA68) MJU-68/B IR CM F MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OCO FY MDAP/ CD Unit Cost (\$M) Qty (Each) Total (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (\$M) Total Cost (\$M) Qty (Each) Total Cost (\$M) Qty (\$Each) Total Cost (\$M) Qty (\$Each) Total Cost (\$M) Qty (\$Each) Qty (\$M)<td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares Aggregated Items Title: (LA68) MJU-68/B IR CM FLARE MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OCO FY 2022 To MDAP/ CD Mals (SM) Total (SM) Unit Cost (SM) Qty (Each) Total Cost (SM) Total (SM) Total (SM) Total (SM) Total (SM) Total (</td></td>	Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares Aggregated Items Title: (LA68) MJU-68/B IR CM F MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OCO FY MDAP/ CD Unit Cost (\$M) Qty (Each) Total (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (Each) Total Cost (\$M) Unit Cost (\$M) Qty (\$M) Total Cost (\$M) Qty (Each) Total Cost (\$M) Qty (\$Each) Total Cost (\$M) Qty (\$Each) Total Cost (\$M) Qty (\$Each) Qty (\$M) <td>Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares Aggregated Items Title: (LA68) MJU-68/B IR CM FLARE MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OCO FY 2022 To MDAP/ CD Mals (SM) Total (SM) Unit Cost (SM) Qty (Each) Total Cost (SM) Total (SM) Total (SM) Total (SM) Total (SM) Total (</td>	Budget Activity / Budget Sub Activity: P-1 Line Item Number / Title: 356010 / Flares Aggregated Items Title: (LA68) MJU-68/B IR CM FLARE MDAP/ ID CD Prior Years FY 2020 FY 2021 FY 2022 Base FY 2022 OCO FY 2022 To MDAP/ CD Mals (SM) Total (SM) Unit Cost (SM) Qty (Each) Total Cost (SM) Total (SM) Total (SM) Total (SM) Total (SM) Total (

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

Remarks:

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

ppropriation / 011F / 01 / 16	Bu	dget	Activity	/ Budg	et Sub /	Activity:		-1 Line 56010 /	Item Nu Flares	imber / ⁻	Title:							ns Title: 1TVR FL/	ARE	
			Pi	rior Years	6		FY 2020			FY 2021		F۱	2022 Bas	е	FY	2022 OC	:0	FY	2022 Tota	al
ltem Number / Title [DODIC]	ID	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ncategorized	zed																l			
(LA76) MJU-73 MTVR FLARE	A		-	-	-	0.001	5,900	4.184	0.001	5,550	3.936	0.001	2,115	1.500	-	-	-	0.001	2,115	1.5
ubtotal: Uncategorized			-	-	-	-	-	4 4 0 4			3.936	-	-	1.500	-	-	-	-	-	1.5
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	als in	this Ex	- hibit P-40a n		-	-	-	4.184				-	-			-		-	-	

3011F / 01 / 16		udge	t Activity	/ Budg	jet Sub	Activity:			e Item Nu / Flares	mber /	Title:					Aggregat LA84) M.		ns Title: BOL/IR FL	ARE	
			P	rior Year	s		FY 2020			FY 2021		FY	2022 Bas	5e	F	Y 2022 OC	:0	FY	2022 Tota	ıl
Item Number / Title [DODIC]	ID	MDAP MAIS Code		Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cos (\$ M)	t Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
ncategorized		1 0000	(\$ 10)	(Luch)	(\$ 10)	(\$ 10)	(Lacii)	(\$ 10)	(\$ 10)	(Luch)	(\$ 10)	(@ 141)	(Lacit)	(\$ 10)	(@ 101)	(Lach)	(\$ 10)	(\$ 10)	(Lacii)	(\$ 10)
MJU-52 BOL/IR FLARE	A		-	-	-	-	-	-	-	-	-	0.001	2,083	1.700	-	-	-	0.001	2,083	1.7
ubtotal: Uncategorized	1		-	-	-	-	-	-	-	-	-	-	-	1.700	-	-	-	-	-	1.7
tal lote: Subtotals or To			-	-	-	-	-	-	-	-	-	-	-	1.700	-	-	-	-	-	1.7

Exhibit P-40a,	Bud	lget l	tem Jus	tificatio	n For A	ggregat	ed Item	s: PB 2	022 Air F	orce					0	Date: Ma	y 2021			
Appropriation 3011F / 01 / 16		dget	t Activity	/ / Budg	et Sub	Activity		P-1 Line 56010 /	Item Nu Flares	imber / ˈ	Title:					Aggrega LA85) M				
	MDAP/ Prior Years									FY 2021		F۱	(2022 Bas	se	F	Y 2022 OC	:0	F۱	7 2022 Tot	al
ltem Number / Title [DODIC]	ID CD	MAIS	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cos (\$ M)	t Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized								1				•	· ·			1				
MJU-75 (LA85)	Α		-	-	-	0.001	11,245	8.996	0.002	12,624	19.965	0.001	50,447	41.169	-	-	-	0.001	50,447	41.169
Subtotal: Uncategorized	1		-	-	-	-	-	8.996	-	-	19.965	-	-	41.169	-	-	-	-	-	41.169
Total			-	-	-	-	-	8.996	-	-	19.965	-	-	41.169	-	-	-	-	-	41.169
Note: Subtotals or To	itals in	this E	xhibit P-40a	may not be	exact or su	um exactly, d	lue to rounc	ling.												

Exhibit P-40a,	Bud	get l	tem Jus	tificatio	n For A	ggregat	ed Item	is: PB 20	022 Air F	orce					C	ate: Mag	y 2021			
Appropriation 3011F / 01 / 16	/ Bu	dget	Activity	/ Budg	et Sub	Activity		P-1 Line 356010 /	Item Nu Flares	mber / '	Title:					.ggregat _A88) M.				
			P	rior Years	\$		FY 2020			FY 2021		FY	2022 Bas	e	F	Y 2022 OC	;0	FY	Y 2022 Tot	al
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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				1					1											
MJU-76 (LA88)	Α		-	-	-	0.001	12,147	9.717	0.001	9,901	8.000	0.001	17,155	14.000	-	-	-	0.001	17,155	14.000
Subtotal: Uncategorized			-	-	-	-	-	9.717	-	-	8.000	-	-	14.000	-	-	-	-	-	14.000
Total	-1	Alata E		-	-	-	-	9.717	-	-	8.000	-	-	14.000	-	-	-	-	-	14.000
Note: Subtotals or To	ais in	i this e	xnidit P-40a i	may not be	exact or su	im exactiy, d	ue to round	aing.												

Exhibit P-40a, E	Bud	get l	tem Jus	tificatio	n For A	ggregat	ed Iter	ns: PB 20	022 Air F	orce					D	ate: Mag	y 2021			
Appropriation / 3011F / 01 / 16	Bu	dget	Activity	/ / Budg	et Sub	Activity:		P-1 Line 356010 /		ımber / '	Title:					ggregat lares (Ite		s Title: than 5 M	/lillion)	
			P	Prior Years	s		FY 2020)		FY 2021		FY	2022 Ba	se	F	Y 2022 OC	0	FY	2022 Tot	al
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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																				
Items Less than 5M	Α		-	-	-	0.001	5,87	7 5.877	0.001	3,750	3.750	0.001	2,928	2.928	-	-	-	0.001	2,928	2.928
Subtotal: Uncategorized			-	-	-	-	-	5.877	-	-	3.750	-	-	2.928	-	-	-	-	-	2.928
Total Note: Subtotals or Tota	ils in	this Ex	- khibit P-40a	- may not be	exact or si	- um exactly, d	ue to rour	5.877 nding.	-	-	3.750	-	-	2.928	-	-	-	-	-	2.928

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Exhibit P-40, Budget Line Item	Justificatio	n: PB 2022	Air Force						Date: M	lay 2021		
Appropriation / Budget Activity 3011F: Procurement of Ammunition				/ BSA 18: F	1	ine Item N 20 / FUZES		tle:	1			
ID Code (A=Service Ready, B=Not Service Ready):	A		Program Elei	ments for Coo	le B Items: N	/A		Other Relate	d Program El	ements: N/A		
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	144.214	102.918	50.795	-	50.795	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	144.214	102.918	50.795	-	50.795	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	144.214	102.918	50.795	-	50.795	-	-	-	-	-	-
(The following	g Resource Sum	mary rows are fo	or informational p	urposes only. Th	e corresponding	g budget requests	s are document	ed elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

-FY2020 funding total includes \$152.480M appropriated for Overseas Contingency Operations, which includes a \$49.679M FY21 Appropriation Act rescission.

-FY2021 funding totals include \$91.017M appropriated for Overseas Contingency Operations, which reflects a \$16.838M reduction in the FY21 Appropriation Act.

-FY2022 funding totals include \$34.970 requested for Direct War and/or Enduring Requirements.

-FY2022 funding request was reduced by \$177.305M to account for the availability of prior year execution balances.

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

- 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 service requirements for a better buying power business case. USAF production buy decision for lot 2 was approved September 2019 with production deliveries beginning 1QFY22. The USAF & USN continue to monitor weapon usage rates in the AOR and as such have adjusted inventory ordering levels from 40,650 to as little as 20,000 per lot. Manufacturing line capacity remains at 50,000 per year, providing a delta of at least 30,000 units that could be available for FMS or other domestic requirements. The original contract for this effort was competitively awarded by the Navy on 17 September 2015.

- DSU-33D/B Proximity Sensor (KY70) is a battery operated, RF, Doppler radar proximity sensor. It is used to provide low altitude proximity function to the bomb fuze. The sensor interfaces with FMU-139 and FMU-152 fuzes. This line item includes existing sensor production, Engineering Change Proposals (ECPs), and product improvement efforts, for example, modifications to eliminate obsolescence. DSU-33D/B will be replaced by Cockpit Selectable Height-of-Burst Sensor (C-HOBS; DSU-43) because of obsolescence issues. The contract was awarded to L3 Technologies in March 2019. Final contract closed 31 Mar 2021 with no future procurements.

Exhibit P-40, Budget Line Item Justification	: PB 2022 Air Force	Date: May 2021
Appropriation / Budget Activity / Budget Su 3011F: Procurement of Ammunition, Air Force	b Activity: / BA 01: Ammunition / BSA 18: Fuzes 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		
 buried targets protected by multiple layers of soil and/or redelay arming capabilities. USAF and USN will employ HT operational objectives. HTVSF completed MS-C in May F in September 2017. FRP 2 & 3 awarded in October 2019. - DSU-43/B Cockpit Selectable Height-of-Burst Sensor (C experiencing and will replace the single factory height-of-allow flexibility during flight to address a wide array of targets. 	einforced concrete. The HTVSF provides for in-flight cockpit programm VSF in penetrator warheads, contributing to the ability to strike and fun Y 2015 & Low-Rate Initial Production (LRIP) was awarded in July 2015 Inventory Objective increases may necessitate additional sustainmen -HOBS) is a sensor that replaces the current DSU-33D/B proximity set purst setting with the addition of multiple height-of-burst options selecta	ng functions, enabling a weapon to penetrate and destroy hardened, deeply hability, safing and arming, multi-function (time delay and void sensing) and multi- functionally defeat high value/high payoff targets in order to achieve strategic and 5. LRIP II was awarded in September 2016 and Full Rate Production was awarded t acquisition. The Air Force is the lead service for procurement/sustainment. Insor. C-HOBS eliminates two obsolescence issues the DSU-33D/B is currently able via both manual switches and a cockpit interface. These selection options electable proximity function to general and special purpose weapons, to include 21.
- Items Less Than Five Million Dollars: Various fuzes, to in	nclude inert training items, that have an annual procurement value of le	ess than \$5,000,000 and are code A.
In accordance with Section 1815 of the FY 2008 National missions, domestic emergency responses, and providing		for use by the active components of the Armed Forces for homeland defense
Funding may be used to address Diminishing Manufactur	ng Sources (DMS)/Material Shortages/Obsolescence issues.	
Funding for this exhibit contained in PEs: 0208030F and 0	0207599F.	

Exhib	it P-40, Budget Line Item Justification: PB	2022 Air	- Fo	rce				Date: N	lay 2021	
	priation / Budget Activity / Budget Sub Ac		nun	ition / E		P-1 Line Item Nu 356120 / FUZES	mber / Title:			
ID Cod	e (A=Service Ready, B=Not Service Ready): A	Pro	gra	m Eleme	ents for Code B Iter	ns: N/A	Other F	Related Program El	ements: N/A	
Line Ite	m MDAP/MAIS Code: N/A						i			
	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)
P-5	C-HOBS		Α		- / -	- / -	4,500 / 27.000	10,000 / 39.598	- / -	10,000 / 39.598
P-5	FMU-139D/B		А		- / -	40,650 / 102.612	29,013 / 75.918	4,650 / 11.197	- / -	4,650 / 11.197
P-5	(EE27) FMU-167 HTVSF		А		- / -	3,000 / 41.602	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / -	- / 144.214	- / 102.918	- / 50.795	- / -	- / 50.795
*Title rep	presents 1) the Number / Title for Items; 2) the Number / Title [DO	DDIC] for Am	imuni	tion; and/	or 3) the Number / Title	(Modification Type) for M	Aodifications.	•		
Note: To	tals in this Exhibit P-40 set may not be exact or sum exactly due	to rounding.								

Justification:

FY22 funding purchases fuzes and associated items. FY2022 funding totals include \$34.970 requested for Direct War and/or Enduring Requirements.

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.

	Analysis	: PB 20	22 Air F	orce										Date: M	ay 2021			
Appropriation / B 3011F / 01 / 18	udget Ad	ctivity /	Budget	Sub Act	ivity:		Line Iten 20 / FUZ	1 Numbe ZES	er / Title:					Item Nu C-HOBS		Title [DO	DIC]:	
ID Code (A=Service Read	dy, B=Not Servio	ce Ready):	Ą						М	DAP/MAIS	Code:							
F	Resource	Summ	ary			Prior Ye	ars	FY 20)20	FY	2021	FY	2022 Bas	se F	Y 2022 (000	FY 2022	Total
Procurement Quantity (Uni	its in Each)		-				-		-		4,50	0	1(0,000		-		10,00
Gross/Weapon System Co	,	s)					-		-		27.00	00	39	9.598		-		39.59
Less PY Advance Procure							-		-		-			-		-		-
Net Procurement (P-1) (\$ i	in Millions)						-		-		27.00	0	39	9.598		-		39.59
Plus CY Advance Procure	ment (\$ in Milli	ions)					-		-		-			-		-		-
Total Obligation Authorit	ty (\$ in Millions,)					-		-		27.00	0	39	9.598		-		39.59
(TI	he following F	Resource Si	ummary row	vs are for info	ormational p	urposes onl	y. The corres	ponding bud	lget request	s are docum	ented elsewl	here.)		Ì		i de la companya de la		
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Ur	nit Cost (\$ in N	1illions)					-		-		0.00)6	(0.004		-		0.00
												1		1				
Note: Subtotals or Totals in	n this Exhibit	P-5 may no	ot be exact of	or sum exact	ly due to rou	inding.												
	P	rior Years	8		FY 2020			FY 2021		F١	(2022 Bas	е	F١	r 2022 OC	0	F	Y 2022 Tota	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Iter	,	(2001)	(0)	(0)	(2001)	(0 11)	(0)	(2001)	(*)	(0)	(200.1)	(0 11)	(\$)	(2001)	(0)	(0)	(2001)	(0)
Recurring Cost																		
C-HOBS	-	-	-	-	-	-	0.006	4,500	24.810	0.004	10,000	37.648	-	-	-	0.004	10,000	37.64
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	24.810	-	-	37.648	-	-	-	-	-	37.64
Subtotal: Hardware - Hardware End Item Cost Cost	-	-	-	-	-	-	-	-	24.810	-	-	37.648	-	-	-	-	-	37.64
Support - Support Cost				1	1	1	1			I I								
PMA Other Government Costs	-	-	-	-	-	-	-	-	2.190	-	-	1.950	-	-	-	-	-	1.95
		-	-	-	-	-	-	-	2.190	-	-	1.950	-	-	-	-	-	1.95
Subtotal: Support - Support Cost	-						0.006	4,500	27.000	0.004	10,000	39.598				0.004	10,000	39.59

Exhibit P-5, Cost	Analysi	s: PB 20	22 Air F	orce										Date: N	May 2021			
Appropriation / B 3011F / 01 / 18	udget A	ctivity /	Budget	Sub Act	ivity:		. ine Iter 20 / FUZ	Numbe ES	r / Title:				I	Item N FMU-1	umber / 1 39D/B	Title [DO	DIC]:	
ID Code (A=Service Read	ly, B=Not Serv	ice Ready):	A						M	DAP/MAI	S Code:							
F	Resource	e Summ	ary		P	rior Yea	irs	FY 20	20	FY	2021	FY 2	2022 Bas	se l	FY 2022 (000	FY 2022	2 Total
Procurement Quantity (Uni	its in Each)						-		40,650		29,01	3		4,650		-		4,65
Gross/Weapon System Co	ost (\$ in Million	ns)					-		102.612		75.91	8	1	1.197		-		11.19
Less PY Advance Procure	ement (\$ in Mi	illions)					-		-		-	_		-		-		-
Net Procurement (P-1) (\$ i	n Millions)	,					-		102.612		75.91	8	1	1.197		-		11.19
Plus CY Advance Procure	,	llions)					-		-		-			-		-		-
Total Obligation Authorit	y (\$ in Million	s)					-		102.612		75.91	8	1	1.197		-		11.19
(TI	he following	Resource Si	ummary row	/s are for info	rmational pur	poses only	The corres	ponding bud	get request	s are docum	ented elsewh	nere.)				i.		
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Ur	nit Cost (\$ in	Millions)					-		0.003		0.00	3		0.002		-		0.00
Note: Subtotals or Totals in	1			or sum exactl	y due to roun	ding.												
	I	Prior Years	5		FY 2020			FY 2021		F١	Y 2022 Bas	е	F	Y 2022 O	oco	F	Y 2022 Tot	al
Cost Elements	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Ite	m Cost Cost	. ,	. ,		. , ,	. ,	. ,	. ,			. ,	. ,				1 . ,	. ,	. ,
Recurring Cost																		
FMU-139 D/B Fuzes	-	-	-	0.002	40,650	92.763	0.002	29,013	66.207	0.002	4,650	9.297	-	-	-	0.002	4,650	9.29
Subtotal: Recurring Cost	-	-	-	-	-	92.763	-	-	66.207	-	-	9.297	-	-	-	-	-	9.29
Subtotal: Hardware - Hardware End Item Cost Cost	-	-	-	-	-	92.763	-	-	66.207	-	-	9.297	-	-	-	-	-	9.29
Support - FMU-139D/B, PGM	SPT, Qual Te	st Cost																
PMA Other Government Costs	-	-	-	-	-	9.849	-	-	9.711	-	-	1.900	-	-	-	-	-	1.90
Subtotal: Support - FMU-139D/B, PGM SPT, Qual Test Cost	-	-	-	-	-	9.849	-	-	9.711	-	-	1.900	-	-	-	-	-	1.90
Gross/Weapon System Cost	-	-	-	0.003	40,650	102.612	0.003	29,013	75.918	0.002	4,650	11.197	-	-	_	0.002	4,650	11.19

Remarks:

Under the current contract price band FMU-139D/B's actual unit cost is \$2,282 per fuze. Price bands can vary based on USN and FMS purchases. Total max production capacity is 50,000 per year.

Lot 3 (FY19/20) quantity is 20,000 Lot 4 (FY20/21) quantity is 20,000 Lot 5 (FY21/22) quantity is 20,000*

*Lot 5 is not currently on contract, but the program office is working a follow-on contract to procure future lots.

	Analysis	: PB 20	22 Air F	orce										Date: M	ay 2021			
Appropriation / E 3011F / 01 / 18	Budget Ac	tivity /	Budget	Sub Activ	'ity:		.ine Iten 20 / FUZ	n Number ZES	r / Title:						mber / T FMU-167			
ID Code (A=Service Rea	dy, B=Not Servio	ce Ready):	A						ME	AP/MAIS	Code:							
	Resource	Summ	arv		Pi	rior Yea	ars	FY 202	20	FY	2021	FY	2022 Bas	e F	Y 2022 C	000	FY 2022	2 Total
Procurement Quantity (Un			,				-		3,000		-			-		-		
Gross/Weapon System C	,	5)					-		41.602		-			-		-		
Less PY Advance Procure	ement (\$ in Mill	ions)					-		-		-			-		-		
Net Procurement (P-1) (\$	in Millions)						-		41.602		-			-		-		-
Plus CY Advance Procure	ement (\$ in Milli	ons)					-		-		-			-		-		-
Total Obligation Authori	ty (\$ in Millions))					-		41.602		-			-		-		-
(7	he following F	Resource Su	ummary row	s are for inforn	national pur	poses only	. The corres	sponding budg	get requests	are docume	ented elsewhe	ere.)						
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System U	nit Cost (\$ in N	lillions)					-		0.014		-			-		-		-
Note: Subtotals or Totals	-			-		ding.												
	P	rior Years		F	Y 2020			FY 2021		FY	2022 Base		F۱	2022 OC	1	F	Y 2022 Tot	1
Cost Elements	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Ite	em Cost			I	I				I	I			I			1		
Recurring Cost				· · · ·									· · · · · · · · · · · · · · · · · · ·					
Recurring Cost Hard Target Void Sensing Fuze CLIN 1001	-	-	-	0.012	3,000	37.000	-	-	-	-	-	-	-	-	-	-	-	-
Hard Target Void Sensing Fuze CLIN	-	-	-	0.012	3,000	37.000 <i>37.000</i>	-	-	-	-	-	-	-	-	-	-	-	-
Hard Target Void Sensing Fuze CLIN 1001 Subtotal: Recurring Cost Subtotal: Hardware - Hardware End Item Cost	-	-						-		-			-	-	-		-	-
Hard Target Void Sensing Fuze CLIN 1001 Subtotal: Recurring Cost Subtotal: Hardware - Hardware End Item Cost Support - Support End Item (-	-	-	-	-	37.000	-	- -	-		-	-	-	-		-	-	-
Hard Target Void Sensing Fuze CLIN 1001 Subtotal: Recurring Cost Subtotal: Hardware - Hardware End Item Cost	-	-	-	-	-	37.000	-	-	-		-	-	- - -	-		-	-	-
Hard Target Void Sensing Fuze CLIN 1001 Subtotal: Recurring Cost Subtotal: Hardware - Hardware End Item Cost Support - Support End Item O Program Management	- Cost	-	-	-	-	37.000 37.000	-	- - -	-	-	-	-		- - - -	-	-		-

Exhibit P-40, Budget Line Item	Justificatio	on: PB 2022	Air Force						Date: N	lay 2021		
Appropriation / Budget Activity 3011F: Procurement of Ammunitio Arms				3SA 1: Sma	1	Line Item N 010 / Small /		tle:				
ID Code (A=Service Ready, B=Not Service Ready):	A		Program Ele	ments for Co	de B Items: N	N/A		Other Relate	d Program El	ements: N/A		
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	43.591	20.142	12.343	-	12.343	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	43.591	20.142	12.343	-	12.343	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	43.591	20.142	12.343	-	12.343	-	-	-	-	-	-
(The following	g Resource Sum	mary rows are fo	or informational p	ourposes only. Tl	he correspondir	ng budget request	ts are documen	ted elsewhere.)				
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY21 funding totals include \$6.217M appropriated for Overseas Contingency Operations. FY22 funding totals include \$5.775M requested for Direct War and/or Enduring Requirements.

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

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

The M4A1 Carbine is a 5.56mm, gas-operated, air-cooled, magazine-fed, selective-rate, shoulder-fired weapon. It is fed by a 30-round magazine and has continued to replace select M16 series rifles. It provides the individual Airman operating in close quarters the capability to engage targets at extended ranges with accurate lethal fire. More compact than the M16 series rifle and featuring a collapsible stock, it achieves over 85% commonality with the M16A2 Rifle. The M4 carbine also provides automatic fire .

The Modular Handgun System(MHS) is a DoD, non-developmental, COTS, full & open competition for a new DoD handgun to replace all M9s, M11s and Glock-19s in the inventory. The M17 and M18 are 9mm, lightweight, striker-fired semi-automatic pistols. USAF A4 has decided that the M18 will be the only version used. The USAF has determined the configuration for the new General Officer Personal Defense Weapon will also be the M18 General Officer Pistol.

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

Exhib	it P-40, Budget Line Item Justification	: PB 2022 Ai	r For	се				Date: Ma	ay 2021	
	Opriation / Budget Activity / Budget Su : Procurement of Ammunition, Air Force		apon	s / BS	1	P -1 Line Item Nu 357010 / Small Ar				
ID Cod	e (A=Service Ready, B=Not Service Ready): A	Pro	ogram	n Eleme	ents for Code B Iter	ns: N/A	Other F	Related Program Ele	ements: N/A	
Line Ite	m MDAP/MAIS Code: N/A									
	Exhibits Schedule				Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/ MAIS Code	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	M4 Carbine (5.56mm)		A		- / -	- / 39.120	- / -	- / -	- / -	- / -
P-40a	Modular Handgun System (MHS)				- / -	- / 0.028	- / -	- / -	- / -	- / -
P-40a	SMALL ARMS Items Less Than \$5M				- / -	- / 4.443	- / 20.142	- / 12.243	- / -	- / 12.243
P-40	Total Gross/Weapon System Cost				- / -	- / 43.591	- / 20.142	- / 12.343	- 1 -	- / 12.343
*Title rep	presents 1) the Number / Title for Items; 2) the Number / Title	tle [DODIC] for Am	nmuniti	on; and/	or 3) the Number / Title	(Modification Type) for M	Modifications. Title repre	sents the P-40a Title wh	en only the P-40a Sumr	nary/Total is shown.
Note: To	tals in this Exhibit P-40 set may not be exact or sum exact	ly due to rounding.								

Justification:

FY2022 funding in the amount of \$12.343M procures Optics, Suppressors, M18 and GOs and allows for annual replacement of comdemnded items.

Exhibit P-5, Cost	Analysis	s: PB 20	22 Air F	orce										Date: M	lay 2021			
Appropriation / B 3011F / 02 / 1	udget A	ctivity /	Budget	Sub Act	ivity:		_ine Item 10 / Sma		er / Title:						Imber / 1 Dine (5.50		DIC]:	
ID Code (A=Service Read	dy, B=Not Servi	ce Ready):	A			1			M	DAP/MAIS	S Code:							
F	Resource	Summ	ary		P	Prior Yea	ars	FY 20	020	FY	2021	FY	2022 Ba	se F	Y 2022 (000	FY 2022	Total
Procurement Quantity (Uni	its in Each)						-		-		-			-		-		
Gross/Weapon System Co	ost (\$ in Million	s)					-		39.120		-			-		-		-
Less PY Advance Procure	ement (\$ in Mil	lions)					-		-		-			-		-		-
Net Procurement (P-1) (\$	in Millions)						-		39.120		-			-		-		-
Plus CY Advance Procure	ment (\$ in Mill	ions)					-		-		-			-		-		-
Total Obligation Authorit	ty (\$ in Millions)					-		39.120		-			-		-		-
(Ti	he following F	Resource Su	ummary row	s are for info	rmational pu	rposes only	. The corres	oonding bua	lget request	s are docum	ented elsewl	here.)						
Initial Spares (\$ in Millions)							-		-		-			-		-		-
Gross/Weapon System Ur	nit Cost (\$ in N	Aillions)					-		-		-			-		-		-
Note: Subtotals or Totals i	n this Exhibit	P-5 may no	ot be exact o	or sum exactl	y due to rour	nding.												
				1	-	-	-											
	P	rior Years	5		FY 2020			FY 2021		F۱	(2022 Bas	е	F	Y 2022 OC	0	F	Y 2022 Tota	al
Cost Elements	P Unit Cost (\$ M)	Prior Years Qty (Each)	S Total Cost (\$ M)	Unit Cost (\$ M)	Cach)	Total Cost (\$ M)	Unit Cost	Cach)	Total Cost (\$ M)	FY Unit Cost (\$ M)	(2022 Bas Qty (Each)	Total Cost (\$ M)	F Unit Cost (\$ M)	Y 2022 OC Qty (Each)	CO Total Cost (\$ M)	F Unit Cost	Y 2022 Tota Qty (Each)	al Total Cost (\$ M)
Cost Elements Support - Support End Item C	Unit Cost (\$ M)	Qty	Total Cost		Qty	Cost		Qty	Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
	Unit Cost (\$ M)	Qty	Total Cost		Qty	Cost (\$ M) 22.000		Qty	Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost
Support - Support End Item C M4 Carbine (5.56mm) IMR Blue Requirements	Unit Cost (\$ M)	Qty	Total Cost	(\$ M)	Qty (Each)	Cost (\$ M)	(\$ M)	Qty	Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty	Total Cost (\$ M)	Unit Cost (\$ M)	Qty	Total Cost
Support - Support End Item C M4 Carbine (5.56mm)	Unit Cost (\$ M)	Qty	Total Cost (\$ M)	(\$ M)	Qty (Each)	Cost (\$ M) 22.000	(\$ M) -	Qty	Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost

Exhibit P-40a,	Buc	lget l	ltem Jus	tificatio	n For A	ggregat	ed Iten	ns: PB 20)22 Air F	orce					D	ate: May	y 2021			
Appropriation 3011F / 02 / 1	/ Bu	Idge	t Activity	/ / Budg	et Sub /	Activity:		P-1 Line 357010 /			Title:							n s Title: n System	(MHS)	
			P	rior Year	S		FY 2020)		FY 2021		FY	2022 Ba	se	F	Y 2022 OC	0	FY	2022 To	tal
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Modular Handgun Syste	em							1					· ·	<u> </u>	1					
M17	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M18	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Officer's Handgun	Α		-	-	-	0.000	100	0 0.028	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Modular Hand	gun S	/stem	-	-	-	-	-	0.028	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	0.028	-	-	-	-	-	-	-	-	-	-	-	-

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

Remarks:

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

Exhibit P-40a, E Appropriation / 3011F / 02 / 1	Bu	_			jet Sub		F		Item Nu Small A		Title:					Aggregat SMALL AI		is Title: ms Less	Than \$5	5M
			P	rior Year	s		FY 2020			FY 2021		FY	2022 Bas	6e	F	Y 2022 OC	0	FY	2022 Tota	al
ltem Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	t Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)
MALL ARMS ITEMS LES	S TH	IAN \$5 I		. ,			, ,			, ,										
Suppressors	A		-	-	-	-		-	-	-	-	0.002	900	1.440	-	-	-	0.002	900	1.44
Optics	A		-	-	-	-	-	-	-	-	16.784	-	-	4.221	-	-	-	-	-	4.22
M18 GO	Α		-	-	-	-	-	-	-	-	0.028	-	-	0.028	-	-	-	-	-	0.02
M18	Α		-	-	-	-	-	-	-	-	-	-	-	0.070	-	-	-	-	-	0.07
AN/PEQ-15 Laser Designator	Α		-	-	-	-	-	0.090	-	-	-	-	-	0.054	-	-	-	-	-	0.05
M2A1 (.50 Cal Machine Gun)	Α		-	-	-	-	-	0.143	-	-	-	-	-	0.000	-	-	-	-	-	0.00
M240B Machinegun (7.62mm)	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ballistic Sighting Module	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M249 Automatic Rifle (5.56mm)	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M4A1 Carbine (5.56mm - Auto)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Modular Combat Shotgun (12 Ga)	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M9 Pistol (9mm)	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glock 19	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M134 Mini Gun	Α		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOD PROJECTS PARTS PROCUREMENT	A		-	-	-	-	-	0.250	-	-	0.230	-	-	0.220	-	-	-	-	-	0.22
FIRST DESTINATION TRANSPORTATION	Α		-	-	-	-	-	2.000	-	-	1.000	-	-	0.500	-	-	-	-	-	0.50
PMA- OTHER GOVERNMENT COST	A		-	-	-	-	-	0.250	-	-	-	-	-	-	-	-	-	-	-	-
PMA- CONTRACTOR SERVICES	A		-	-	-	-	-	1.400	-	-	1.400	-	-	1.350	-	-	-	-	-	1.35
PMA-GPC	Α		-	-	-	-	-	0.080	-	-	0.100	-	-	0.010	-	-	-	-	-	0.01
PMA-TRAVEL	Α		-	-	-	-	-	0.080	-	-	0.100	-	-	0.100	-	-	-	-	-	0.10
PMA-RMIS CORPORATE TAX	A		-	-	-	-	-	0.150	-	-	0.250	-	-	0.250	-	-	-	-	-	0.25
Hold for Price Adjustments	A		-	-	-	-	-	-	-	-	0.250	-	-	4.000	-	-	-	-	-	4.00
ubtotal: SMALL ARMS I HAN \$5 MILLION	TEMS	S LESS	-	-	-	-	-	4.443	-	-	20.142	-	-	12.243	-	-	-	-	-	12.24
otal			-	_	-	-	-	4.443	_	_	20.142	-	-	12.243	-	-	_	-	-	12.24

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2022 Air Force		Date: May 2021
		Aggregated Items Title:
3011F / 02 / 1	357010 / Small Arms	SMALL ARMS Items Less Than \$5M

Remarks: Unit costs for FY22 are estimates and subject to change.