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**Department of Defense
Fiscal Year (FY) 2023 Budget Estimates**

April 2022



Air Force

Justification Book Volume 1 of 1

Missile Procurement, Air Force

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Air Force • Budget Estimates FY 2023 • Procurement

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Appropriation Language
Fiscal Year (FY) 2023 Budget Estimates
Missile Procurement, Air Force

For construction, procurement, and modification of missiles, rockets, and related equipment, including spare parts and accessories therefor, ground handling equipment, and training devices; expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents, transportation of things, and overseas contingency operations, \$ 2,962,417,000 to remain available for obligations until September 30, 2025.

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Department of the Air Force
 FY 2023 President's Budget
 Exhibit P-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

25 Mar 2022

Appropriation: Missile Procurement, Air Force

Budget Activity -----	FY 2021 (Base + OCO) -----	FY 2022 Less Supplementals Enactment -----	FY 2022 Division B Division C P.L.117-43 Enactment* -----	FY 2022 Division B P.L.117-70 Enactment** -----
01. Ballistic Missiles	73,474	66,688		
02. Other Missiles	1,366,598	1,487,974		
03. Modification of Inservice Missiles	177,743	236,148		
04. Spares and Repair Parts	98,506	83,804		
05. Other Support	523,966	600,592		
Total Missile Procurement, Air Force	2,240,287	2,475,206		

P-123PBP: FY 2023 President's Budget (Total Base Published Version), as of March 25, 2022 at 15:48:45

*Includes enacted funding pursuant to the Extending Government Funding and Delivering Emergency Assistance Act (Public Law 117-43).

**Includes enacted funding pursuant to the Further Extending Government Funding Act (Public Law 117-70).

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Department of the Air Force
 FY 2023 President's Budget
 Exhibit P-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

25 Mar 2022

Appropriation: Missile Procurement, Air Force

Budget Activity -----	FY 2022 Division A P.L. 117-86 Enactment*** -----	FY 2022 Division N P.L. 117-103 Enactment**** -----	FY 2022 Total Supplemental Enactment -----	FY 2022 Total Enactment -----
01. Ballistic Missiles				66,688
02. Other Missiles				1,487,974
03. Modification of Inservice Missiles				236,148
04. Spares and Repair Parts				83,804
05. Other Support				600,592
Total Missile Procurement, Air Force				2,475,206

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Department of the Air Force
FY 2023 President's Budget
Exhibit P-1 FY 2023 President's Budget
Total Obligational Authority
(Dollars in Thousands)

25 Mar 2022

Appropriation: Missile Procurement, Air Force

Budget Activity -----	FY 2023 Request -----
01. Ballistic Missiles	57,476
02. Other Missiles	1,844,801
03. Modification of Inservice Missiles	239,335
04. Spares and Repair Parts	78,332
05. Other Support	742,473
Total Missile Procurement, Air Force	2,962,417

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Department of the Air Force
 FY 2023 President's Budget
 Exhibit P-1 FY 2023 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Ballistic Missiles											

Missile Replacement Equipment - Ballistic											
1	Missile Replacement Eq-Ballistic	A			57,793						U
2	Missile Replacement Eq-Ballistic	A		73,474							U
Ballistic Missiles											
3	Ground Based Strategic Deterrent Advance Procurement (CY)					8,895					U
	C (FY 2022 for FY 2026) (M)					(2,455)					
	C (FY 2022 for FY 2027) (M)					(3,220)					
	C (FY 2022 for FY 2028) (M)					(3,220)					
Total Ballistic Missiles				73,474		66,688					
Budget Activity 02: Other Missiles											

Strategic											
4	Long Range Stand-Off Weapon	A									U
Tactical											
5	Replac Equip & War Consumables	A		4,495		7,681					U
6	AGM-183A Air-Launched Rapid Response Weapon	A									U
7	Joint Air-Surface Standoff Missile	A	400	493,439	525	710,550					U
8	LRASM0		6	19,800							U
9	Sidewinder (AIM-9X)	A	277	119,769	230	102,507					U

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Department of the Air Force
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 Exhibit P-1 FY 2023 President's Budget
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Ballistic Missiles											

Missile Replacement Equipment - Ballistic											
1	Missile Replacement Eq-Ballistic	A							57,793		U
2	Missile Replacement Eq-Ballistic	A									U
Ballistic Missiles											
3	Ground Based Strategic Deterrent Advance Procurement (CY)								8,895		U
	C (FY 2022 for FY 2026) (M)								(2,455)		
	C (FY 2022 for FY 2027) (M)								(3,220)		
	C (FY 2022 for FY 2028) (M)								(3,220)		
									-----	-----	
Total Ballistic Missiles									66,688		
Budget Activity 02: Other Missiles											

Strategic											
4	Long Range Stand-Off Weapon	A									U
Tactical											
5	Replac Equip & War Consumables	A							7,681		U
6	AGM-183A Air-Launched Rapid Response Weapon	A									U
7	Joint Air-Surface Standoff Missile	A						525	710,550		U
8	LRASM0										U
9	Sidewinder (AIM-9X)	A						230	102,507		U

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Department of the Air Force
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 Exhibit P-1 FY 2023 President's Budget
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
Budget Activity 01: Ballistic Missiles					

Missile Replacement Equipment - Ballistic					
1	Missile Replacement Eq-Ballistic	A		57,476	U
2	Missile Replacement Eq-Ballistic	A			U
Ballistic Missiles					
3	Ground Based Strategic Deterrent Advance Procurement (CY)				U
	C (FY 2022 for FY 2026) (M)				
	C (FY 2022 for FY 2027) (M)				
	C (FY 2022 for FY 2028) (M)				
Total Ballistic Missiles				57,476	

Budget Activity 02: Other Missiles					

Strategic					
4	Long Range Stand-Off Weapon	A		31,454	U
Tactical					
5	Replac Equip & War Consumables	A		30,510	U
6	AGM-183A Air-Launched Rapid Response Weapon	A	1	46,566	U
7	Joint Air-Surface Standoff Missile	A	550	784,971	U
8	LRASM0		28	114,025	U
9	Sidewinder (AIM-9X)	A	255	111,855	U

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Department of the Air Force
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 Exhibit P-1 FY 2023 President's Budget
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2021 (Base + OCO)		FY 2022 Less Supplementals Enactment		FY 2022 Division B Division C P.L.117-43 Enactment*		FY 2022 Division B P.L.117-70 Enactment**		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
10	AMRAAM	A	262	306,023	168	214,002					U
11	Predator Hellfire Missile	A	4517	183,549	1176	103,684					U
12	Small Diameter Bomb	A	1958	53,613	748	72,859					U
13	SMALL DIAMETER BOMB II	B	674	185,096	976	275,934					U
14	Stand-In Attack Weapon (SIAW)	A									U
Industrial Facilities											
15	Industr'l Preparedns/Pol Prevention	A				757					U
16	Industrial Facilities	A		814							U
Total Other Missiles				1,366,598		1,487,974					
Budget Activity 03: Modification of Inservice Missiles											

Class IV											
17	Spectrum funds	A		-6							U
18	ICBM FUZE MOD	A				(69,363)					U
	Less: Advance Procurement (PY)					(-4,100)					U
						65,263					
19	ICBM FUZE MOD										
	Advance Procurement (CY)			43,450		35,507					U
	C (FY 2021 for FY 2024) (M)			(43,450)							
	C (FY 2022 for FY 2025) (M)					(35,507)					
	C (FY 2023 for FY 2026) (M)										
20	MM III Modifications	A		81,137		88,579					U

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Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
10	AMRAAM	A							168	214,002	U
11	Predator Hellfire Missile	A							1176	103,684	U
12	Small Diameter Bomb	A							748	72,859	U
13	SMALL DIAMETER BOMB II	B							976	275,934	U
14	Stand-In Attack Weapon (SIAW)	A									U
	Industrial Facilities										
15	Industr'l Preparedns/Pol Prevention	A								757	U
16	Industrial Facilities	A									U
Total Other Missiles										1,487,974	
Budget Activity 03: Modification of Inservice Missiles											

Class IV											
17	Spectrum funds	A									U
18	ICBM FUZE MOD	A								(69,363)	U
	Less: Advance Procurement (PY)									(-4,100)	U
										65,263	
19	ICBM FUZE MOD										
	Advance Procurement (CY)									35,507	U
	C (FY 2021 for FY 2024) (M)										
	C (FY 2022 for FY 2025) (M)									(35,507)	
	C (FY 2023 for FY 2026) (M)										
20	MM III Modifications	A								88,579	U

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Department of the Air Force
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
10	AMRAAM	A	271	320,056	U
11	Predator Hellfire Missile	A		1,040	U
12	Small Diameter Bomb	A	356	46,475	U
13	SMALL DIAMETER BOMB II	B	761	279,006	U
14	Stand-In Attack Weapon (SIAW)	A	42	77,975	U
	Industrial Facilities				
15	Industr'l Preparedns/Pol Prevention	A		868	U
16	Industrial Facilities	A			U
Total Other Missiles				1,844,801	
Budget Activity 03: Modification of Inservice Missiles					

Class IV					
17	Spectrum funds	A			U
18	ICBM FUZE MOD	A		(114,188)	U
	Less: Advance Procurement (PY)			(-14,497)	U
				99,691	
19	ICBM FUZE MOD				
	Advance Procurement (CY)			37,673	U
	C (FY 2021 for FY 2024) (M)				
	C (FY 2022 for FY 2025) (M)				
	C (FY 2023 for FY 2026) (M)			(37,673)	
20	MM III Modifications	A		68,193	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
21	AGM-65D Maverick	A		238							U
22	Air Launch Cruise Missile (ALCM)	A		52,924		46,799					U
Total Modification of Inservice Missiles				177,743		236,148					
Budget Activity 04: Spares and Repair Parts											
Missile Spares and Repair Parts											
23	Msl Sprs/Repair Parts (Initial)	A		13,888		16,212					U
24	Msl Sprs/Repair Parts (Replen)	A		84,618		63,547					U
25	Initial Spares/Repair Parts	A				4,045					U
Total Spares and Repair Parts				98,506		83,804					
Budget Activity 05: Other Support											
Special Programs											
28	Special Update Programs	A		23,501		30,352					U
999 Classified Programs				500,465		570,240					U
Total Other Support				523,966		600,592					
Total Missile Procurement, Air Force				2,240,287		2,475,206					

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Line No	Item Nomenclature	Ident Code	FY 2022 Division A P.L. 117-86 Enactment***		FY 2022 Division N P.L. 117-103 Enactment****		FY 2022 Total Supplemental Enactment		FY 2022 Total Enactment		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
21	AGM-65D Maverick	A									U
22	Air Launch Cruise Missile (ALCM)	A							46,799		U
Total Modification of Inservice Missiles									236,148		
Budget Activity 04: Spares and Repair Parts											
Missile Spares and Repair Parts											
23	Msl Sprs/Repair Parts (Initial)	A							16,212		U
24	Msl Sprs/Repair Parts (Replen)	A							63,547		U
25	Initial Spares/Repair Parts	A							4,045		U
Total Spares and Repair Parts									83,804		
Budget Activity 05: Other Support											
Special Programs											
28	Special Update Programs	A							30,352		U
999 Classified Programs									570,240		U
Total Other Support									600,592		
Total Missile Procurement, Air Force									2,475,206		

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 Exhibit P-1 FY 2023 President's Budget
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 (Dollars in Thousands)

25 Mar 2022

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2023 Request		S e c
			Quantity	Cost	
21	AGM-65D Maverick	A			U
22	Air Launch Cruise Missile (ALCM)	A		33,778	U
Total Modification of Inservice Missiles				239,335	
Budget Activity 04: Spares and Repair Parts					
Missile Spares and Repair Parts					
23	Msl Sprs/Repair Parts (Initial)	A		15,354	U
24	Msl Sprs/Repair Parts (Replen)	A		62,978	U
25	Initial Spares/Repair Parts	A			U
Total Spares and Repair Parts				78,332	
Budget Activity 05: Other Support					
Special Programs					
28	Special Update Programs	A		36,933	U
999 Classified Programs				705,540	U
Total Other Support				742,473	
Total Missile Procurement, Air Force				2,962,417	

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Air Force • Budget Estimates FY 2023 • Procurement

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

Appropriation 3020F: Missile Procurement, Air Force

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1-2	01	03	00099L	Missile Replacement Eq-Ballistic.....	Volume 1 - 1
3	01	04	MGBSD0	Ground Based Strategic Deterrent.....	Volume 1 - 7
3	01	04	MGBSD0	Ground Based Strategic Deterrent, Advance Procurement.....	Volume 1 - 11

Appropriation 3020F: Missile Procurement, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
4	02	01	MLRSO1	Long Range Stand-Off Weapon.....	Volume 1 - 15
5	02	02	222000	Replac Equip & War Consumables.....	Volume 1 - 19
6	02	02	ARRW00	AGM-183A Air-Launched Rapid Response Weapon.....	Volume 1 - 23
7	02	02	JASSM0	Joint Air-Surface Standoff Missile.....	Volume 1 - 31
8	02	02	LRASM0	LRASM0.....	Volume 1 - 43
9	02	02	M09HAI	Sidewinder (AIM-9X).....	Volume 1 - 53
10	02	02	MAMRA0	AMRAAM.....	Volume 1 - 71

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Appropriation 3020F: Missile Procurement, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
11	02	02	PRDTA2	Predator Hellfire Missile.....	Volume 1 - 81
12	02	02	SDB000	Small Diameter Bomb.....	Volume 1 - 83
13	02	02	SDB002	SMALL DIAMETER BOMB II.....	Volume 1 - 93
14	02	02	SIAW24	Stand-In Attack Weapon (SIAW).....	Volume 1 - 105
15	02	05	000042	Industr'I Preparedns/Pol Prevention.....	Volume 1 - 113
16	02	05	INDSUR	Industrial Facilities.....	Volume 1 - 115

Appropriation 3020F: Missile Procurement, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
18	03	01	M30FLH	ICBM FUZE MOD.....	Volume 1 - 117
19	03	01	M30FLH	ICBM FUZE MOD, Advance Procurement.....	Volume 1 - 125
20	03	01	M30MLG	MM III Modifications.....	Volume 1 - 129
21	03	01	M65DAG	AGM-65D Maverick.....	Volume 1 - 141
22	03	01	MALCBG	Air Launch Cruise Missile (ALCM).....	Volume 1 - 143

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Appropriation 3020F: Missile Procurement, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
23	04	10	00098A	Msl Sprs/Repair Parts (Initial).....	Volume 1 - 155
24	04	10	00098K	Msl Sprs/Repair Parts (Replen).....	Volume 1 - 159
25	04	10	000999	Initial Spares/Repair Parts.....	Volume 1 - 163

Appropriation 3020F: Missile Procurement, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
28	05	04	MSPPRG	Special Update Programs.....	Volume 1 - 165

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
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AGM-65D Maverick	M65DAG	21	03	01.....	Volume 1 - 141
AMRAAM	MAMRA0	10	02	02.....	Volume 1 - 71
Air Launch Cruise Missile (ALCM)	MALCBG	22	03	01.....	Volume 1 - 143
Ground Based Strategic Deterrent	MGBSD0	3	01	04.....	Volume 1 - 7
Ground Based Strategic Deterrent, Advance Procurement	MGBSD0	3	01	04.....	Volume 1 - 11
ICBM FUZE MOD	M30FLH	18	03	01.....	Volume 1 - 117
ICBM FUZE MOD, Advance Procurement	M30FLH	19	03	01.....	Volume 1 - 125
Industr'l Preparedns/Pol Prevention	000042	15	02	05.....	Volume 1 - 113
Industrial Facilities	INDSUR	16	02	05.....	Volume 1 - 115
Initial Spares/Repair Parts	000999	25	04	10.....	Volume 1 - 163
Joint Air-Surface Standoff Missile	JASSM0	7	02	02.....	Volume 1 - 31
LRASM0	LRASM0	8	02	02.....	Volume 1 - 43
Long Range Stand-Off Weapon	MLRSO1	4	02	01.....	Volume 1 - 15
MM III Modifications	M30MLG	20	03	01.....	Volume 1 - 129
Missile Replacement Eq-Ballistic	00099L	1-2	01	03.....	Volume 1 - 1
Msl Sprs/Repair Parts (Initial)	00098A	23	04	10.....	Volume 1 - 155

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
Msl Sprs/Repair Parts (Replen)	00098K	24	04	10.....	Volume 1 - 159
Predator Hellfire Missile	PRDTA2	11	02	02.....	Volume 1 - 81
Replac Equip & War Consumables	222000	5	02	02.....	Volume 1 - 19
SMALL DIAMETER BOMB II	SDB002	13	02	02.....	Volume 1 - 93
Sidewinder (AIM-9X)	M09HAI	9	02	02.....	Volume 1 - 53
Small Diameter Bomb	SDB000	12	02	02.....	Volume 1 - 83
Special Update Programs	MSPPRG	28	05	04.....	Volume 1 - 165
Stand-In Attack Weapon (SIAW)	SIAW24	14	02	02.....	Volume 1 - 105

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Air Force • Budget Estimates FY 2023 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Lookup Matrix by Model

Model:	LGM-30G	
Modification P-40a Aggregated Items Title:	MM III Modifications	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
5910	MINUTEMAN MEECN MODIFICATION	No
5921	MM LCC Block Upgrades	No
5928	T-9 Launch Facility Trainer Conversion (T-9)	No
5932	LGM-30G Remote Visual Assessment Phase II (RVA II)	No
5942	LGM-30G Launch Control Center Break-In-Kit (LCCB)	No
5947	A/D Switch Replacement	No
5948	CMPT upgrade	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
5915	ICBM Fuze Modernization	No
5916	ICBM Cryptography Upgrade Increment II	No
5925	MM III Auto Switching Unit (ASU)	No
5949	Fast Rising B-Plug Service Extension Program (FRBP SLEP)	No

Model:	AGM-86B	
Modification P-40a Aggregated Items Title:	Air Launch Cruise Missile (ALCM)	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		

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Exhibit P-1M, Procurement Programs - Modification Summary
(Listing by Model)

Model:	AGM-86B	
Modification P-40a Aggregated Items Title:	Air Launch Cruise Missile (ALCM)	
Item Number	Item Title	Applies to Multiple Models
_0468	AGM-86B Low Cost Mods	No
860011	Support Equipment	No
860101	AGM-86B Service Life Extension Program 1	No
860103	Warhead Arming Device (WAD)	No
860105	Guided Missile Flight Controller (GMFC)	No
860106	W-10 Cable	No
860107	Fuze Assembly	No
860108	Inertial Navigation Element (INE)	No
860109	Flight Data Transmitter	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
860009	AGM-86B CALCM/ALCM Test Instrumentation Kit	No
860104	Rotary Switch (RS)	No

Model:	AGM86B	
Modification P-40a Aggregated Items Title:	Air Launch Cruise Missile (ALCM)	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
860110	Voltage Regulator	No

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 Exhibit P-1M, Procurement Programs - Modification Summary
 (Funding for Modifications)

Funding (\$ M)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
Exhibit P-40a										
MINUTEMAN MEECN MODIFICATION	129.384	-	2.674	4.090	-	4.090	4.380	4.693	2.999	-
MM LCC Block Upgrades	17.254	24.420	2.136	-	-	-	-	-	-	-
T-9 Launch Facility Trainer Conversion (T-9)	35.516	4.008	-	-	-	-	-	-	-	-
LGM-30G Remote Visual Assessment Phase II (RVA II)	7.819	20.443	54.590	2.363	-	2.363	-	-	-	-
LGM-30G Launch Control Center Break-In-Kit (LCCB)	0.226	-	-	-	-	-	-	-	-	-
A/D Switch Replacement	-	-	4.534	4.469	-	4.469	0.000	-	-	-
CMPT upgrade	0.258	-	-	-	-	-	-	-	-	-
Low Cost Modifications	12.682	0.160	4.899	5.038	-	5.038	0.618	8.825	9.167	10.259
AGM-86B Low Cost Mods	2.096	-	0.100	0.100	-	0.100	0.100	0.100	0.100	-
Support Equipment	19.881	19.199	0.126	0.645	-	0.645	7.809	11.763	7.400	12.425
AGM-86B Service Life Extension Program 1	10.507	3.832	4.064	4.028	-	4.028	3.806	3.902	2.844	0.014
Warhead Arming Device (WAD)	7.501	0.055	0.010	0.001	-	0.001	-	-	-	-
Guided Missile Flight Controller (GMFC)	1.395	4.292	8.351	4.577	-	4.577	7.356	7.025	7.128	5.729
W-10 Cable	1.290	0.713	0.210	0.206	-	0.206	-	-	-	-
Fuze Assembly	3.178	3.041	4.593	1.051	-	1.051	0.000	-	-	-
Inertial Navigation Element (INE)	21.494	10.315	7.715	4.200	-	4.200	5.088	5.210	5.335	4.303
Flight Data Transmitter	-	-	1.193	3.929	-	3.929	4.016	4.099	4.181	4.937
Voltage Regulator	-	-	-	-	-	-	1.000	1.000	1.000	1.000
Exhibit P-3a										
ICBM Fuze Modernization	70.216	43.450	100.770	137.364	0.000	137.364	157.889	160.202	115.130	111.581

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 Exhibit P-1M, Procurement Programs - Modification Summary
 (Funding for Modifications)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027
ICBM Cryptography Upgrade Increment II	116.569	28.615	10.782	7.054	0.000	7.054	0.000	0.000	0.000	0.000
MM III Auto Switching Unit (ASU)	1.272	3.491	8.964	35.497	0.000	35.497	31.729	17.966	-	-
Fast Rising B-Plug Service Extension Program (FRBP SLEP)	0.000	0.000	0.000	9.682	0.000	9.682	11.637	15.380	4.031	-
AGM-86B CALCM/ALCM Test Instrumentation Kit	6.934	2.915	13.447	9.801	0.000	9.801	3.024	0.000	0.000	0.000
Rotary Switch (RS)	21.965	8.562	6.990	5.240	0.000	5.240	0.560	0.590	0.630	0.630
Totals (Total Obligation Authority)										
Total Obligation Authority	487.437	177.511	236.148	239.335	0.000	239.335	239.012	240.755	159.945	150.878

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ACRONYMS

GENERAL ACRONYMS

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

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

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

BASE / ORGANIZATIONAL ACRONYMS

ACC	- Air Combat Command
AETC	- Air Education & Training Command
AFCAO	- Air Force Computer Acquisition Office
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

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

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CONTRACT METHOD / TYPE ACRONYMS

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

CONTRACTED BY ACRONYMS

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

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

IDENTIFICATION CODES

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 3: Missile Replacement Equipment - Ballistic	P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0101213F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	57.793	57.476	-	57.476	73.927	69.233	56.030	41.635	-	356.094
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	57.793	57.476	-	57.476	73.927	69.233	56.030	41.635	-	356.094
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	57.793	57.476	-	57.476	73.927	69.233	56.030	41.635	-	356.094

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

Initial Spares (<i>\$ in Millions</i>)	-	-	0.257	-	-	-	-	-	-	-	-	0.257
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program funds replacement of organizational and intermediate level support equipment for all out-of-production ballistic missile systems. Equipment procured is used for missile weapon systems maintenance and testing at organizational/intermediate (base/field) launch control facilities, as well as missile testing facilities. Equipment and qualified minor construction costs related to depot activation. Funding may be used to address Diminishing Manufacturing Sources () issues.

Related Research, Development, Test & Evaluation, Air Force funding is contained in PE 0101213F.

- Ballistic Missile Items Less Than 5 Million: Support Equipment Less Than 5M procures low cost new, modified or replacement support equipment, to include facilities and other equipment to support programmed depot maintenance capability activation. This also includes efforts required to prepare for re-location of T-41 trainer from Malmstrom AFB to Vandenberg Space Force Base (VSFB).
- Payload Transporter Replacement (PTR): Provides nuclear certified tractor and trailer to emplace, extract, and transport the reentry system, the Propulsion System Rocket Engine, and the guidance systems. Replaces current payload transporter to meet USSTRATCOM security requirements and addresses supportability issues. Required to sustain Minuteman III operations through fielding of Ground Based Strategic Deterrent (GBSD) in 2036.
- Performance Assessment Data System Communication Equipment Interface Unit (PADS CEIU): PADS is used to collect and analyze Missile Guidance Computer (MGC) data, Launch Facility (LF) faults and anomalies, as well as LF security and Environmental Control System (ECS) data. PADS is a critical MM III legacy data system, developed in the late 1970s and redesigned in 1996-1999, using commercial software. This program addresses PADS reliability, by updating software to meet Air Force software security requirements and to conform to the Air Force standard desktop configuration. PADS CEIU is used to transmit MM III Inertial Measurement Unit (IMU) Performance Data (IPD) from the Launch Control Center (LCC) to the PADS at the support base via telephone lines. CEIU is unclassified equipment, but interfaces with both classified and non-classified systems. This program will update the current CEIU. The change to CEIU design will no longer utilize a modem but will instead use internet protocol (IP). PADS CEIU will support operations through the fielding of GBSD and is required by AFGSC by the end of FY24.
- Transporter Erector Replacement Program (TERP): The TERP replaces the current transporter erector used to emplace, extract and transport MM III boosters to and from launch facilities. The TERP will also update existing drawings, specifications and technical orders to eliminate parts obsolescence and support operations through the fielding of GBSD in 2036.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 3: Missile Replacement Equipment - Ballistic **P-1 Line Item Number / Title:** 00099L / Missile Replacement Eq-Ballistic

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0101213F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Ballistic Missile Items Less Than \$5 Million				- / -	- / 3.606	- / 3.477	- / 4.913	- / -	- / 4.913
P-40a	Payload Transporter Replacement (PTR)				- / -	- / 39.741	- / 44.216	- / 46.388	- / -	- / 46.388
P-40a	Perf Assess Data Sys Comm Equip Interface Unit (PADS CEIU II)				- / -	- / 0.000	- / 7.900	- / 6.175	- / -	- / 6.175
P-40a	Transporter Erector Replacement Program (TERP)				- / -	- / 30.127	- / 2.200	- / 0.000	- / -	- / 0.000
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	- / 57.793	- / 57.476	- / -	- / 57.476

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

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

Justification:
 FY23 funding provides replacement support equipment items for an aging inventory of equipment which has become increasingly costly to maintain. These items will increase ballistic missile system reliability and maintainability by providing state-of-the-art maintenance repair and testing capability. The items are required to bridge the gap to the National Defense Strategy and National Military Strategy directed nuclear force modernization activities. Requirements are jointly determined by Headquarters United States Air Force (HQ USAF), Air Force Materiel Command (AFMC) and Air Force Global Strike Command (AFGSC) and are based on established allowance standards.

Items requested in FY23 are displayed on the attached P-40A. Items procured during execution may change based on critical equipment needed to support current and emerging Air Force mission requirements.

- Ballistic Missile Items Less Than \$5 Million: Procured low cost support equipment required to sustain Minuteman III operations through fielding of the GBSD.
- PTR: FY23 funding will enable the award of a contract option to procure 6 additional units.
- PADS CEIU: FY23 funding will be used to fund deployment to the three operational wings, the Strategic Missile Integration Center (SMIC), and VSFB.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force															Date: April 2022				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3						P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic						Aggregated Items Title: Ballistic Missile Items Less Than \$5 Million							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Various																				
Various	A		-	-	-	-	-	3.606	-	-	3.477	-	-	4.913	-	-	-	-	-	4.913
Subtotal: Various			-	-	-	-	-	3.606	-	-	3.477	-	-	4.913	-	-	-	-	-	4.913
Total			-	-	-	-	-	3.606	-	-	3.477	-	-	4.913	-	-	-	-	-	4.913

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

Remarks:
Support Equipment Less Than \$5M procures low cost new, modified or replacement support equipment, to include facilities and other equipment to support programmed depot maintenance capability activation.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3 **P-1 Line Item Number / Title:** 00099L / Missile Replacement Eq-Ballistic **Aggregated Items Title:** Payload Transporter Replacement (PTR)

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
LGM-30G																				
LGM-30G Payload Transporter Replacement (PTR)	A		-	-	-	7.948	5	39.741	7.369	6	44.216	7.731	6	46.388	-	-	-	7.731	6	46.388
Subtotal: LGM-30G			-	-	-	-	-	39.741	-	-	44.216	-	-	46.388	-	-	-	-	-	46.388
Total			-	-	-	-	-	39.741	-	-	44.216	-	-	46.388	-	-	-	-	-	46.388

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

Remarks:
 Description
 Provides nuclear certified tractor and trailer to emplace, extract and transport the reentry system, Propulsion System Rocket Engine, and guidance systems. Replaces current payload transporter to meet United States Strategic Command (USSTRATCOM) security requirements and addresses supportability issues. PTR will update existing drawings, specifications, and technical orders to eliminate parts obsolescence and address the intended usage through fielding of Ground Based Strategic Deterrent (GBSD).

Justification: FY23 funds will be used to produce six Payload Transporter Replacement units and associated program support costs (PSC).

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force														Date: April 2022					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3							P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic							Aggregated Items Title: Perf Assess Data Sys Comm Equip Interface Unit (PADS CEIU II)					

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
LGM-30G																				
Performance Assessment Data System Comm Equipment Interface Unit (PADS CEIU II)	A		-	-	-	-	-	0.000	0.272	29	7.900	-	-	6.175	-	-	-	-	-	6.175
Subtotal: LGM-30G			-	-	-	-	0.000	-	-	7.900	-	-	6.175	-	-	-	-	-	-	6.175
Total			-	-	-	-	0.000	-	-	7.900	-	-	6.175	-	-	-	-	-	-	6.175

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

Remarks:
 Performance Assessment Data System (PADS) is used to collect and analyze Missile Guidance Computer (MGC) data, Launch Facility (LF) faults and anomalies, as well as LF security and Environmental Control System (ECS) data. PADS is a critical MM III legacy data system, developed in the late 1970s and redesigned in 1996-1999, using commercial software. This program addresses PADS reliability, by updating software to meet Air Force software security requirements and to conform to the Air Force standard desktop configuration.

PADS Communications Equipment Interface Unit (CEIU) is used to transmit MM III Inertial Measurement Unit (IMU) Performance Data (IPD) from the Launch Control Center (LCC) to the PADS at the support base via telephone lines. CEIU is unclassified equipment, but interfaces with both classified and non-classified systems. This program will update the current CEIU. The change to CEIU design will no longer utilize a modem but will instead use internet protocol (IP). Program will produce 29 updated CEIUs and will upgrade 48 LCCs with fiber optics.

Justification: FY23 will be used to begin deployment of PADS CEIU to the three operational wings, the SMIC, and VAFB.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force															Date: April 2022				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3						P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic						Aggregated Items Title: Transporter Erector Replacement Program (TERP)							

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
LGM-30G																				
LGM-30G Transporter Erector Replacement Program (TERP)	A		-	-	-	3.766	8	30.127	-	-	2.200	-	-	0.000	-	-	-	-	-	0.000
Subtotal: LGM-30G			-	-	-	-	-	30.127	-	-	2.200	-	-	0.000	-	-	-	-	-	0.000
Total			-	-	-	-	-	30.127	-	-	2.200	-	-	0.000	-	-	-	-	-	0.000

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

Remarks:
 Description: The Transporter Erector Replacement Program (TERP) replaces the current transporter erector used to emplace, extract and transport MM III boosters to and from launch facilities. TERP will update existing drawings, specifications and technical orders to eliminate parts obsolescence and address the intended usage through fielding of Ground Based Strategic Deterrent (GBSD).
 Justification: FY22 funding will be used to support continued fielding of procured TERP assets though FY23.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 4: Ballistic Missiles	P-1 Line Item Number / Title: MGBSD0 / Ground Based Strategic Deterrent
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0101233F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 493

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	43	56	659	758
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	-	0.000	71.286	0.000	6,231.686	6,916.494	48,352.800	61,572.266
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	-	0.000	0.000	0.000	541.755	505.940	3.220	1,050.915
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	0.000	-	0.000	71.286	0.000	5,689.931	6,410.554	48,349.580	60,521.351
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	0.000	8.895	0.000	-	0.000	539.300	502.720	0.000	0.000	0.000	1,050.915
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	8.895	0.000	-	0.000	610.586	502.720	5,689.931	6,410.554	48,349.580	61,572.266

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	144.923	123.509	73.373	81.230

Description:

The Ground Based Strategic Deterrent (GBSD) program will design, develop, produce and deploy a replacement for the current Minuteman III (MM III) Intercontinental Ballistic Missile (ICBM) weapon system in order to maintain a safe, secure, reliable, and effective nuclear deterrent. The GBSD program will deliver a fully integrated weapon system beginning in Fiscal Year 2029 to lower lifecycle costs and to close key capability gaps and vulnerabilities identified in the GBSD Capabilities Based Assessment, GBSD Capabilities Development Document, and the GBSD Analysis of Alternatives. GBSD will also mitigate ground based deterrent degradation due to MM III component age-out and attrition.

The Air Force is developing a new Aerospace Vehicle Equipment (AVE) (flight system) for the GBSD weapon system to replace the MM III flight system. The GBSD AVE will consist of a boost propulsion subsystem, a post-boost propulsion subsystem, a guidance, navigation, and control (GN&C) subsystem, and a re-entry subsystem. The boost propulsion subsystem will be comprised of a 3-stage solid rocket booster. The Air Force is procuring the 3-stage rocket booster, interstage structures, and all associated test and support equipment. The post-boost propulsion subsystem will be comprised of a liquid-fueled rocket propulsion system integrated into a post-boost attitude control module (PBACM) structure, as well as all guidance, navigation, and control components. The Air Force is procuring the liquid-fueled rocket propulsion system, post-boost attitude control module structure, the Guidance, Navigation, and Control (GN&C) system, and all the associated test and support equipment. The Air Force will also procure reentry systems including the payload deployment module and shroud. Low-Rate Initial Production (LRIP) for AVEs begins in FY26 and continues through FY31, with delivery of the first LRIP lot in FY28. The LRIP lots will include the equipment and labor needed to deploy, transport, operate, maintain, train and sustain the GBSD weapon system (i.e. spares, training, installation, transportation, support equipment, etc.).

The Air Force will convert MM III Launch Centers (LC) and Launch Facilities (LF) to the GBSD weapon system configuration across three operational wings. The weapons system components required as part of the overall conversion are integral for the successful deployment of the weapon system. The LF/LC conversion requires strict alignment of procurement and MILCON resources for the successful deployment of the weapon system.

The GBSD program will include prime contractor development of applicable support equipment, data, flight test hardware and infrastructure, and training systems while examining and mitigating risk during the MM III to GBSD transition. The support equipment may include, but is not limited to, the Engineering Units for the Transporter Erector, Payload Transporter, Missile Transporter, Post Boost Altitude Control Module Transporter, Command and Control, and Secondary Launch Platform- Airborne. This program includes any needed nuclear surety and certification and system vulnerability assessments. Additionally, the GBSD program funds all required developmental and operational test and evaluation activities to meet initial and full operational capability milestones including, but not limited to, developing, improving and modernizing test capabilities essential to reaching those milestones when existing test capabilities are inadequate or non-existent.

KS-75 Life of Type Buy (LOTB)

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 4: Ballistic Missiles		P-1 Line Item Number / Title: MGBSD0 / Ground Based Strategic Deterrent
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0101233F	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 493		
<p>The Air Force is developing a common cryptographic device, and the supporting equipment, used in multiple subsystems and/or networks throughout the GBSD weapons system to reduce risk and enable the future GBSD Concept of Operations. The Air Force has partnered with the National Nuclear Security Administration (NNSA) via Sandia National Laboratories (SNL) as the Technical Design Agent responsible for the design, development, test, qualification, and certification of the KS-75 cryptographic device. The Air Force plans to procure COTS parts to ensure lot integrity of critical components within the KS-75, eliminate costly redesign if parts become unavailable in the future, and reduce security risk of counterfeit parts entering the design while also reducing future production risk and increasing performance and reliability.</p> <p>The GBSD program will pursue future LOTBs and advanced procurement requests. These future requests include but not limited to the following:</p> <p>Inertial Measurement Unit (IMU) Electronics Long Lead Procurement: The Air Force is developing an Inertial Measurement Unit (IMU) for the GBSD weapon system. Northrop Grumman is the design agent responsible for the design, development, test, and qualification of the IMU. Production lead times for GBSD dictate that procurement begin approximately 24 months before the system is deployed. The advance procurement purchases the IMU long lead items to ensure proper development and support on-time system deployment. The advance procurement may include LOTB of critical radiation hardened parts, eliminating costly redesign if the parts become unavailable in the future.</p> <p>Missile Guidance Computer (MGC) Electronics Long Lead Procurement: The Air Force is developing a Missile Guidance Computer (MGC) for the GBSD weapon system. Northrop Grumman is the design agent responsible for the design, development, test, and qualification of the MGC. Production lead times for GBSD dictate that procurement begin approximately 24 months before the system is deployed. The advance procurement purchases the MGC long lead items to ensure proper development and support on-time system deployment. The advance procurement may include LOTB of critical radiation hardened parts, eliminating costly redesign if the parts become unavailable in the future.</p> <p>Weapon System Structures (LF/LC/CSB) Procurement: Operational Launch Facilities, Launch Centers, and Communication Support Buildings (as required) will begin construction after Milestone C approval in FY26 and will use Procurement and MILCON funding. The demarcation of each will be determined by GBSD Critical Design Review (CDR) to fully identify weapon system and real property and fund each as appropriate.</p> <p>Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.</p> <p>Funding for this exhibit contained in PE 0101233F.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 4: Ballistic Missiles **P-1 Line Item Number / Title:** MGBSD0 / Ground Based Strategic Deterrent

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0101233F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 493

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	Ground Based Strategic Deterrent		B		- / -	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000

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

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

Justification:
GBSD does not have 3020 funding in FY23

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Exhibit P-5, Cost Analysis: PB 2023 Air Force		Date: April 2022
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 4	P-1 Line Item Number / Title: MGBSD0 / Ground Based Strategic Deterrent	Item Number / Title [DODIC]: Ground Based Strategic Deterrent

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.000	0.000	0.000	-	0.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	0.000	0.000	0.000	-	0.000
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	0.000	0.000	0.000	-	0.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	0.000	8.895	0.000	-	0.000
Total Obligation Authority <i>(\$ in Millions)</i>	-	0.000	8.895	0.000	-	0.000

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>
Hardware - GBSD Cost																		
Non Recurring Cost																		
Ground Based Strategic Deterrent (GBSD)	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Hardware - GBSD Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000

Remarks:

Overall quantity is dependent upon unit reliability data currently being collected and analyzed. Quantities will be known in 2nd Qtr FY22.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Air Force **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 4: Ballistic Missiles	P-1 Line Item Number / Title: MGBSD0 / Ground Based Strategic Deterrent
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Program Elements for Code B Items: 0101233F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 493

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	8.895	0.000	-	0.000	539.300	502.720	0.000	0.000	0.000	1,050.915
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	8.895	0.000	-	0.000	539.300	502.720	0.000	0.000	0.000	1,050.915
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	8.895	0.000	-	0.000	539.300	502.720	0.000	0.000	0.000	1,050.915

Description:

The Ground Based Strategic Deterrent (GBSD) program will design, develop, produce and deploy a replacement for the current Minuteman III (MM III) Intercontinental Ballistic Missile (ICBM) weapon system in order to maintain a safe, secure, reliable, and effective nuclear deterrent. The GBSD program will deliver a fully integrated weapon system beginning in Fiscal Year 2029 to lower lifecycle costs and to close key capability gaps and vulnerabilities identified in the GBSD Capabilities Based Assessment, GBSD Capabilities Development Document, and the GBSD Analysis of Alternatives. GBSD will also mitigate ground based deterrent degradation due to MM III component age-out and attrition. The end items for which the long lead items listed on the P-10 will be used to produce are fully funded in the BY budget.

The Air Force is developing a new Aerospace Vehicle Equipment (AVE) (flight system) for the GBSD weapon system to replace the MM III flight system. The GBSD AVE will consist of a boost propulsion subsystem, a post-boost propulsion subsystem, a guidance, navigation, and control (GN&C) subsystem, and a re-entry subsystem. The boost propulsion subsystem will be comprised of a 3-stage solid rocket booster. The Air Force is procuring the 3-stage rocket booster, interstage structures, and all associated test and support equipment. The post-boost propulsion subsystem will be comprised of a liquid-fueled rocket propulsion system integrated into a post-boost attitude control module (PBACM) structure, as well as all guidance, navigation, and control components. The Air Force is procuring the liquid-fueled rocket propulsion system, post-boost attitude control module structure, the Guidance, Navigation, and Control (GN&C) system, and all the associated test and support equipment. The Air Force will also procure reentry systems including the payload deployment module and shroud.

The Air Force will convert MM III Launch Centers (LC) and Launch Facilities (LF) to the GBSD weapon system configuration across three operational wings. The weapons system components required as part of the overall conversion are integral for the successful deployment of the weapon system.

The GBSD program will include prime contractor development of applicable support equipment, data, flight test hardware and infrastructure, and training systems material while examining and mitigating risk during the MM III to GBSD transition. The support equipment may include but not limited to the Engineering Units for the Transporter Erector, Payload Transporter, Missile Transporter, and Post Boost Altitude Control Module Transporter. This program includes any needed nuclear surety and certification and system vulnerability assessments. Additionally, the GBSD program funds all required developmental and operational test and evaluation activities to meet initial and full operational capability milestones including, but not limited to, developing, improving and modernizing test capabilities essential to reaching those milestones when existing test capabilities are inadequate or non-existent.

FY22 funding is for the KS-75 common cryptographic device Life of Type Buy.

UNCLASSIFIED

Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Air Force **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 4: Ballistic Missiles	P-1 Line Item Number / Title: MGBSD0 / Ground Based Strategic Deterrent
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Program Elements for Code B Items: 0101233F	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 493

Exhibits Schedule				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	Ground Based Strategic Deterrent			- / -	- / 0.000	- / 8.895	- / 0.000	- / -	- / 0.000
P-40	Total Gross/Weapon System Cost			- / -	- / 0.000	- / 8.895	- / 0.000	- / -	- / 0.000

*Title represents the P-10 Title for Advance Procurement.

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

Justification:
 GBSD program requirements with lead times greater than 12 months

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2023 Air Force					Date: April 2022	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 4		P-1 Line Item Number / Title: MGBSD0 / Ground Based Strategic Deterrent			P-5 Number / Title: Ground Based Strategic Deterrent	
First System (2023) Award Date: April 2022		First System (2023) Completion Date: September 2028		Interval Between Systems: 0 Months		
Ground Based Strategic Deterrent		Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2021 <i>(Each)</i>	FY 2022 <i>(Each)</i>	FY 2023 <i>(Each)</i>
Quantity		14	-	-	-	-
Cost Elements		When Required <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2021 <i>(\$ M)</i>	FY 2022 <i>(\$ M)</i>	FY 2023 <i>(\$ M)</i>
GFE						
Ground Based Strategic Deterrent (GBSD)		48	-	-	8.895	-
<i>Total: GFE</i>			-	-	8.895	-
Total Advance Procurement/Obligation Authority			-	0.000	8.895	0.000

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2023 Air Force **Date:** April 2022

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 4	P-1 Line Item Number / Title: MGBSD0 / Ground Based Strategic Deterrent	P-5 Number / Title: Ground Based Strategic Deterrent
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Cost Elements	QPA <i>(Each)</i>	FY 2023					Total Cost Request <i>(\$ M)</i>
		Production Leadtime <i>(Months)</i>	Unit Cost <i>(\$ M)</i>	Contract Forecast Date	2023 Qty <i>(Each)</i>	For FY	
GFE							
Ground Based Strategic Deterrent (GBSD)	-						-
<i>Total: GFE</i>							-
Total Advance Procurement/Obligation Authority							0.000

Description:
 FY22 Advance Procurement amount funds the KS-75 LOTB effort. The Air Force is developing a common cryptographic device, KS-75, and the supporting equipment, used in multiple subsystems and/or networks throughout the GBSD weapon system to reduce risk and enable the future GBSD Concept of Operations. Associated quantities for the KS-75 are 234 in FY26, 308 in FY27, and 308 in FY28. The FY24 and FY25 Advance Procurement amounts fund AVE production with a lead time of 48 mos and associated quantities of 43 in FY26 and 56 in FY27.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 1: Strategic **P-1 Line Item Number / Title:** MLRSO1 / Long Range Stand-Off Weapon

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0101238F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 489

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	31.454	-	31.454	69.238	139.963	302.973	1,096.067	8,129.822	9,769.517
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	31.454	-	31.454	69.238	139.963	302.973	1,096.067	8,129.822	9,769.517
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	31.454	-	31.454	69.238	139.963	302.973	1,096.067	8,129.822	9,769.517

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

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

Description:

The 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.

The Long Range Stand Off (LRSO) Cruise Missile is a long range survivable stand-off weapon capable of delivering lethal nuclear effect on strategic targets. LRSO will replace the currently fielded Air Launched Cruise Missile (ALCM) and will be integrated on both legacy and future bomber aircraft. The LRSO weapon system will be capable of penetrating and surviving advanced Integrated Air Defense Systems (IADS) from significant stand-off range to prosecute strategic targets in support of the Air Force's global attack capability and strategic deterrence core function.

Threshold and objective aircraft are defined in the program's Capabilities Development Document (CDD) approved by the Joint Requirements Oversight Council (JROC) August 2020.

Funds may be used to address emerging or short-notice Diminishing Manufacturing sources and Material Shortage (DMSMS) issues.

The program is conducting Engineering and Manufacturing Development tasks to validate requirements to support Development and Operational Testing and Production Readiness.

The LRSO program will include prime contractor development and production/delivery of applicable support equipment, data, flight test hardware and infrastructure, and training systems while examining and mitigating risk during the ALCM to LRSO transition.

The program includes necessary nuclear surety and certification activities, and vulnerability assessments.

FY2023-2026 procurement funds will be used to purchase warhead support equipment and field trainers required to be in place for Initial Nuclear Surety Inspection (INSI). The INSI must be accomplished prior to fielding the weapon system and attaining Initial Operational Capability.

The Milestone C decision is planned in 3QFY2027, followed by Low Rate Initial Production contract award.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 1: Strategic **P-1 Line Item Number / Title:** MLRSO1 / Long Range Stand-Off Weapon

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0101238F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 489

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	Long Range Stand-Off Weapon		B		- / 0.000	- / 0.000	- / 0.000	- / 31.454	- / -	- / 31.454
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 0.000	- / 0.000	- / 31.454	- / -	- / 31.454

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

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

Justification:

This program is a new start.

The LRSO program has achieved Milestone B and has entered Engineering and Manufacturing Development (EMD).

It is conducting EMD tasks aimed at meeting validated requirements prior to production initiation and includes necessary nuclear surety and certification activities, and vulnerability assessments.

FY2023-2026 procurement funds will be used to purchase warhead support equipment and field trainers required to be in place for Initial Nuclear Surety Inspection (INSI). The INSI must be accomplished prior to fielding the weapon system and attaining Initial Operational Capability. Funds procure backbone infrastructure hardware and associated software. Additional detailed information is classified and can be provided at higher classification levels. For further information, please contact SAF/AQPN.

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Exhibit P-5, Cost Analysis: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 1	P-1 Line Item Number / Title: MLRSO1 / Long Range Stand-Off Weapon	Item Number / Title [DODIC]: Long Range Stand-Off Weapon

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

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	31.454	-	31.454
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	31.454	-	31.454
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	31.454	-	31.454

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

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

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>	Unit Cost <i>(\$ M)</i>	Qty <i>(Each)</i>	Total Cost <i>(\$ M)</i>
Ancillary Equipment - Long Range Stand-Off Weapon Cost																		
Non Recurring Cost																		
Warhead Trainers	-	-	0.000	-	-	0.000	-	-	0.000	-	-	31.454	-	-	-	-	-	31.454
<i>Subtotal: Non Recurring Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	31.454	-	-	-	-	-	31.454
<i>Subtotal: Ancillary Equipment - Long Range Stand-Off Weapon Cost</i>	-	-	0.000	-	-	0.000	-	-	0.000	-	-	31.454	-	-	-	-	-	31.454
Gross/Weapon System Cost	-	-	0.000	-	-	0.000	-	-	0.000	-	-	31.454	-	-	-	-	-	31.454

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** 222000 / Replac Equip & War Consumables

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	4.495	7.681	30.510	-	30.510	39.087	6.688	12.776	12.983	-	114.220
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	4.495	7.681	30.510	-	30.510	39.087	6.688	12.776	12.983	-	114.220
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	4.495	7.681	30.510	-	30.510	39.087	6.688	12.776	12.983	-	114.220

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

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

Description:

Common Munitions BIT Reprogramming Equipment (CMBRE) Service Life Extension Program (SLEP) is a critical program replacing a legacy system fielded in the 1990s utilizing floppy drives and a DOS/Win XP operating system. The CMBRE SLEP program will mitigate the effects and risk associated with a growing list of 20+ obsolete components, outdated technology, and insufficient cybersecurity outlined in Red Team and POA&M findings in order to sustain current capabilities. CMBRE SLEP will effectively support the 20+ smart munitions and weapon systems currently fielded for the warfighter today, as well as advanced systems currently in development. CMBRE SLEP is needed to verify weapons built-in test status, reprogram operational flight data, and up/download mission and GPS data.

Cruise Missile Automatic Test System (CM-ATS)

The CM-ATS is a nuclear certified tester designed to test the AGM-86 Cruise Missile fleet, the B-2 RLA, and associated Carrier Aircraft Equipment (CAE) used to launch missiles.

Funding for this exhibit is contained in PE 0701212F.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** 222000 / Replac Equip & War Consumables

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Replac Equip & War Consumables				- / -	- / 4.495	- / 7.681	- / 30.510	- / -	- / 30.510
P-40	Total Gross/Weapon System Cost				- / -	- / 4.495	- / 7.681	- / 30.510	- / -	- / 30.510

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

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

Justification:

3020 funds are required for the Common Munitions BIT Reprogramming Equipment (CMBRE) Service Life Extension Program (SLEP) and the Cruise Missile Automatic Test System (CM-ATS).

Funds will be used to procure and recapitalize the ATS Product Group which consists of: Armament and Stores ATS and Software Loader/Verifier and Built-in-Test ATS to include proven commercial and/or Government off-the-shelf ATS to replace legacy and obsolete systems to ensure persistent logistics and enable agile combat employment.

Funds are required in order to upgrade the CMBRE and CM-ATS system. CMBRE is comprised of three major components that must be replaced: Digital Computer System Assembly (DCSA), Test Adapter Unit (TAU), and ADU. There will be no test capability for smart munitions and Bomber Rack Unit, BRU-61, for fighter aircraft if upgrades are not complete.

CMBRE Tester is used to initiate built-in test (BIT), reprogram the Operational Flight Programs (OFPs) for MIL-STD-1760/Non-1760 smart bombs and missiles, upload mission planning, and upload/download Global Positioning System (GPS) crypto keys.

CMBRE SLEP breaks vendor lock, allowing the Government to own full data rights and the technical data package (TDP). It also addresses obsolescence and cyber security issues.

The CM-ATS is a nuclear certified tester designed to test the AGM-86 Cruise Missile fleet, the B-2 Rotary Launcher Assembly (RLA), and associated Carrier Aircraft Equipment (CAE) used to launch missiles.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: 222000 / Replac Equip & War Consumables	Aggregated Items Title: Replac Equip & War Consumables
---	---	--

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
COMMON MUNITIONS BIT REPROGRAMMING EQUIPMENT SERVICE LIFE EXTENSION PROGRAM																				
DCSA PRODUCTION UNITS	A		-	-	-	0.200	15	3.000	-	-	0.181	0.057	300	17.100	-	-	-	0.057	300	17.100
Munition Application Program (MAPs)	A		-	-	-	-	-	1.495	1.500	5	7.500	1.500	6	9.000	-	-	-	1.500	6	9.000
ICS	A		-	-	-	-	-	-	-	-	-	-	-	4.410	-	-	-	-	-	4.410
Subtotal: COMMON MUNITIONS BIT REPROGRAMMING EQUIPMENT SERVICE LIFE EXTENSION PROGRAM			-	-	-	-	-	4.495	-	-	7.681	-	-	30.510	-	-	-	-	-	30.510
Total			-	-	-	-	-	4.495	-	-	7.681	-	-	30.510	-	-	-	-	-	30.510

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

Remarks:

FY22 funding was obligated for the Munition Application Program (MAP) for Wind Corrected Munition Dispenser (WCMD) as well as the procurement of 30 SLEP Digital Computer System Assemblies (DCSAs) and MAP support kits. FY21 funds was obligated for building 14 CMBRE SLEP Test Adapter Units (TAUs) and will be obligated for MAPs for JASSM-A, JASSM-ER and JASSM B-2 and the Miniature Air Launched Dispenser (MALD). FY23 will be obligated for MAPs for PAVEWAY, JSOW, LRASM, and MOP and necessary costs associated with the CMBRE and Cruise Missile ATS Programs.

FY23 funds will be used to procure and recapitalize the ATS Product Group which consists of: Armament and Stores ATS and Software Loader/Verifier and Built-in-Test ATS to include proven commercial and/or Government off-the-shelf ATS to replace legacy and obsolete systems to ensure persistent logistics and enable agile combat employment.

Common Munitions BIT Reprogramming Equipment (CMBRE) Service Life Extension Program (SLEP) is used to initiate BIT and reprogram MIL-STD-1760/Non-1760 smart bombs and missiles.

Provides BIT status, upload/download and verification of applicable software including:

Operational Flight Programs (OFPs), mission planning and/or Global Positioning System (GPS) crypto keys, preflight of smart munitions.

The Cruise Missile - Automatic Test System is a nuclear certified tester designed to test the AGM-86 Cruise Missile fleet, the B-2 RLA, and associated Carrier Aircraft Equipment (CAE) used to launch missiles.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** ARRW00 / AGM-183A Air-Launched Rapid Response Weapon

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0101101F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	1	-	1	-	-	-	-	-	1
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	46.566	-	46.566	0.000	0.000	0.000	0.000	-	46.566
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	46.566	-	46.566	0.000	0.000	0.000	0.000	-	46.566
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	46.566	-	46.566	0.000	0.000	0.000	0.000	-	46.566
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	37.000	-	37.000	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	46.566	-	46.566	-	-	-	-	-	46.566

Description:

The ARRW effort is a new start in FY23.

AGM-183A, Air-Launched Rapid Response Weapon (ARRW), is a Middle Tier Acquisition (MTA) rapid prototyping effort (RDT&E) in PE 0604033F, BPAC 643882. ARRW provides a hypersonic, long range, conventional air-to-surface, precision guided prompt strike capability from stand-off ranges. ARRW will provide a lethal capability against high-value, time-sensitive targets in anti-access/area-denied environments. Initial fielding and operational use of ARRW will be on the B-52 aircraft and have a 15 year shelf life. The RDT&E effort will design, develop, manufacture, and test a number of production-ready prototype missiles. In FY 2023, ARRW will complete manufacture and flight test of AUR test missiles and transition to an early operational capability. Additionally, ARRW will complete rapid prototyping and conduct contract closeout. This procurement activity continues production for ARRW.

The ARRW rapid prototyping effort successfully completed captive carriage testing in December 2020, validating environmental captive carriage requirements on the B-52H. ARRW entered the booster test flight (BTF) phase in April 2021 which will validate platform-store safe separation, booster ignition and flyout, and simulated glider separation. The remaining BTF's will occur in FY22. There are four All-Up Round (AUR) test flights (ATF) in FY23.

ARRW procurement funding supports the entire weapon system to include resolution of obsolescence, end-of-life buys, bridge buys, supplier/parts replacement, to include electronic components used commercially and in short supply, and qualification activities to preserve and increase future production capabilities and capacity. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

Note: Procurement quantities can change based on negotiated options/pricing curve and available funding, in accordance with Title 10, U.S. Code Section 2308 Buy-To-Budget Acquisition. Buy-to-budget units will cause variations in the all up round unit costs.

Note: In FY 2022, PE 0101101F, Project ARRW00/AGM-183A Air-Launched Rapid Response Weapon, \$80.425M was transferred to PE 0604033F, Hypersonics Prototyping, Project 643882, Air-Launched Rapid Response Weapon, in order to mitigate the testing shortfall. The remaining \$80.425M was marked as early to need.

Funding for this exhibit contained in PE 0101101F.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** ARRW00 / AGM-183A Air-Launched Rapid Response Weapon

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0101101F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>
P-5	AGM-183A Air-Launched Rapid Response Weapon	P-5a, P-21	B		- / -	- / 0.000	- / 0.000	1 / 46.566	- / -	1 / 46.566
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	- / 0.000	1 / 46.566	- / -	1 / 46.566

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

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

Justification:
 FY23 funding will procure 1 AGM-183A ARRW AUR missile and associated support equipment.

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Exhibit P-5, Cost Analysis: PB 2023 Air Force						Date: April 2021			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2				P-1 Line Item Number / Title: ARRW00 / AGM-183A Air-Launched Rapid Response Weapon			Item Number / Title [DODIC]: AGM-183A Air-Launched Rapid Response Weapon		
ID Code (A=Service Ready, B=Not Service Ready) : B						MDAP/MAIS Code:			
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)				-	-	-	1	-	1
Gross/Weapon System Cost (\$ in Millions)				-	0.000	0.000	46.566	-	46.566
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	0.000	0.000	46.566	-	46.566
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				-	0.000	0.000	46.566	-	46.566
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)				-	-	-	46.566	-	46.566

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - AGM-183A Air-Launched Rapid Response Weapon Cost																		
Recurring Cost																		
AGM-183A AUR ^(†)	-	-	-	-	-	0.000	-	-	0.000	22.865	1	22.865	-	-	-	22.865	1	22.865
System Engineering	-	-	-	-	-	-	-	-	0.000	-	-	10.135	-	-	-	-	-	10.135
Interim Contractor Support (ICS)	-	-	-	-	-	-	-	-	0.000	-	-	4.000	-	-	-	-	-	4.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	37.000	-	-	-	-	-	37.000
<i>Subtotal: Flyaway - AGM-183A Air-Launched Rapid Response Weapon Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	37.000	-	-	-	-	-	37.000
Support - Air-launched Rapid Response Weapon (ARRW) Cost																		
Integration & Product Support	-	-	-	-	-	-	-	-	0.000	-	-	1.400	-	-	-	-	-	1.400
Program Support Costs (PSC) Contractor Services	-	-	-	-	-	-	-	-	0.000	-	-	5.519	-	-	-	-	-	5.519
Infrastructure & Obsolescence	-	-	-	-	-	-	-	-	0.000	-	-	1.500	-	-	-	-	-	1.500
Program Support Costs (PSC) Other Government Costs	-	-	-	-	-	-	-	-	0.000	-	-	1.147	-	-	-	-	-	1.147
<i>Subtotal: Support - Air-launched Rapid Response Weapon (ARRW) Cost</i>	-	-	-	-	-	-	-	-	0.000	-	-	9.566	-	-	-	-	-	9.566

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Exhibit P-5, Cost Analysis: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: ARRW00 / AGM-183A Air-Launched Rapid Response Weapon	Item Number / Title [DODIC]: AGM-183A Air-Launched Rapid Response Weapon
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	0.000	46.566	1	46.566	-	-	-	46.566	1	46.566

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force								Date: April 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2			P-1 Line Item Number / Title: ARRW00 / AGM-183A Air-Launched Rapid Response Weapon					Item Number / Title [DODIC]: AGM-183A Air-Launched Rapid Response Weapon				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
AGM-183A AUR ^(†)		2023	Lockheed Martin / Orlando, FL	SS / FPIF	AFLCMC/EB - Weapons	Oct 2022	Apr 2024	1	22.865	N	Sep 2022	Dec 2020

^(†) indicates the presence of a P-21

Remarks:
Variations in unit cost are due to available funding and negotiated pricing curve.

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Exhibit P-21, Production Schedule: PB 2023 Air Force							Date: April 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2				P-1 Line Item Number / Title: ARRW00 / AGM-183A Air-Launched Rapid Response Weapon				Item Number / Title [DODIC]: AGM-183A Air-Launched Rapid Response Weapon				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial			Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - Orlando, FL	12	12	24	22	1	18	19	0	0	0	0

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** JASSM0 / Joint Air-Surface Standoff Missile

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: 555

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	4,044	400	525	550	-	550	512	503	505	508	-	7,547
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,618.836	493.439	710.550	784.971	-	784.971	852.706	999.215	994.919	1,001.656	-	10,456.292
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	4,618.836	493.439	710.550	784.971	-	784.971	852.706	999.215	994.919	1,001.656	-	10,456.292
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,618.836	493.439	710.550	784.971	-	784.971	852.706	999.215	994.919	1,001.656	-	10,456.292

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

Initial Spares (<i>\$ in Millions</i>)	1.660	0.440	0.442	0.451	-	0.451	0.459	0.466	0.476	0.486	-	4.880
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	1.142	1.234	1.353	1.427	-	1.427	1.665	1.987	1.970	1.972	-	1.385

Description:

FY2021 funding totals include \$30.0M appropriated for Overseas Contingency Operations (OCO). These funds procure 24 missiles.

The Joint Air-to-Surface Standoff Missile (JASSM) is an ACAT 1C program. This program provides a long range, conventional air-to-surface, autonomous, precision guided, standoff cruise missile compatible with fighter and bomber aircraft able to attack a variety of fixed or relocatable targets. The JASSM family of missiles includes: JASSM Baseline (JASSM-BL/AGM-158A) and JASSM Extended Range (JASSM-ER/AGM-158B, JASSM-ER/AGM-158B-2, JASSM-ER/AGM-158B-3, and JASSM-ER/AGM-158D).

The AGM-158A and B are fielded and the AGM-158B-2, B-3, and D are in development. The variants in development will be gradually inserted into the production line as a new missile build once ready. DD-250'd missiles will not be returned for modification to the newest variant.

The AGM-158B-2 resulted after the wing restructure. AGM-158B-2 replaces obsolete components and provides a new electronic fuze, a new Global Positioning System (GPS) receiver, an upgraded Missile Control Unit (MCU), and enhanced software. AGM-158B-2 will begin a gradual production cut-in starting in Lot 19/FY21 funding year. AGM-158B-3 provides M-code capability. AGM-158B-3 will begin a gradual production cut-in starting in Lot 21/FY23 funding year. AGM-158D provides Weapon Data Link (WDL) capability to re-target the missile, post-launch, against relocatable or higher priority targets during mission execution. AGM-158D will begin a gradual production cut-in starting in Lot 20/FY22 funding year. Efforts also include, but are not limited to, production cut-in of alternate communication methods, architectures and waveforms to advance missile capabilities against emerging targets.

FY21 Procurement funds JASSM-ER/AGM-158B-2 Low Rate Initial Production (LRIP). FY22 Procurement funds JASSM-ER/AGM-158D LRIP. Threshold aircraft is the B-1 and the objective aircrafts are the B-52, F-16, B-2, F-15E, and F-35. Aircraft integration for JASSM-BL is complete on the B-52H, F-16 (Block 40-52), B-1, B-2, and F-15E. Aircraft integration for JASSM-ER/AGM-158B is complete on the B-1, F-15E, F-16 (Block 40-52), and B-52. JASSM Lots 1 - 10 are covered under an Original Equipment Manufacture (OEM) warranty. Lots 11 and beyond are covered under a Contractor Logistics Support (CLS) contract, and missile initial/replenishment spares program funds are required to fill the spare parts pipeline under this program. Procurement quantities are estimates only and fall within a range of quantities based on negotiations for each specific lot contract.

FY23 Procurement funds the 21st production lot for the JASSM program. FY23 funding also includes, but not limited to Diminishing Manufacturing Sources (DMS) issues. The program also plans to use funds to address obsolescence issues and reliability improvement, including flight testing, 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 capacity.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical		P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile
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: 555		
This requirement (or modification) supports performance of a full financial audit as required by title 10 U.S.C. Chapter 9A, Sec 240-D.		
Funding and quantity information prior to FY2017 is identified in P-1 line Item 654515.		
Funding for this exhibit is contained in PE 0207325F.		

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** JASSM0 / Joint Air-Surface Standoff Missile

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: 555

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	JASSM0 JASSM Baseline		A		2,034 / 1,836.328	- / -	- / -	- / -	- / -	- / -
P-5	Joint Air-Surface Standoff Missile	P-5a, P-21	A		2,010 / 2,782.508	400 / 493.439	525 / 710.550	550 / 784.971	- / -	550 / 784.971
P-40	Total Gross/Weapon System Cost				4,044 / 4,618.836	400 / 493.439	525 / 710.550	550 / 784.971	- / -	550 / 784.971

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

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

Justification:
FY2023 funding totals include \$784.971M to procure 550 missiles.

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

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Exhibit P-5, Cost Analysis: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile	Item Number / Title [DODIC]: JASSM0 JASSM Baseline

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	2,034	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,836.328	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,836.328	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,836.328	-	-	-	-	-

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

Initial Spares (\$ in Millions)	0.801	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	0.903	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Flyaway End Item Cost																		
Recurring Cost																		
JASSM BL AGM-158A	0.698	2,034	1,420.038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	1,420.038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	1,420.038	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - Support End Item Cost																		
Program Management Administration (PMA)-A&AS	-	-	9.526	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Administration (PMA)-Gov't Cost	-	-	24.178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Test Support/Reliability/Obsolescence	-	-	253.711	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prime Contractor Support	-	-	99.286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JPO Tech Supt	-	-	29.589	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	416.290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	0.903	2,034	1,836.328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile	Item Number / Title [DODIC]: Joint Air-Surface Standoff Missile

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	2,010	400	525	550	-	550
Gross/Weapon System Cost (\$ in Millions)	2,782.508	493.439	710.550	784.971	-	784.971
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,782.508	493.439	710.550	784.971	-	784.971
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,782.508	493.439	710.550	784.971	-	784.971

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

Initial Spares (\$ in Millions)	0.859	0.440	0.442	0.451	-	0.451
Gross/Weapon System Unit Cost (\$ in Millions)	1.384	1.234	1.353	1.427	-	1.427

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)

Flyaway - Flyaway End Item Cost

Recurring Cost																		
AGM-158B ^(†)	1.133	2,010	2,278.166	0.995	360	358.200	0.989	280	276.861	-	-	-	-	-	-	-	-	-
Engineering Change Orders/ Tooling/Equipment Maintenance/Repairs/ M&S Support	-	-	29.217	-	-	14.828	-	-	16.772	-	-	11.659	-	-	-	-	-	11.659
AGM-158B-2 ^(†)	-	-	-	1.216	40	48.634	1.123	210	235.816	1.126	430	484.144	-	-	-	1.126	430	484.144
AGM-158B ^(†)	-	-	-	-	-	-	1.551	35	54.270	1.565	80	125.219	-	-	-	1.565	80	125.219
AGM-158B-3 ^(†)	-	-	-	-	-	-	-	-	-	1.126	40	45.037	-	-	-	1.126	40	45.037
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>2,307.383</i>	<i>-</i>	<i>-</i>	<i>421.662</i>	<i>-</i>	<i>-</i>	<i>583.719</i>	<i>-</i>	<i>-</i>	<i>666.059</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>666.059</i>
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	<i>-</i>	<i>-</i>	<i>2,307.383</i>	<i>-</i>	<i>-</i>	<i>421.662</i>	<i>-</i>	<i>-</i>	<i>583.719</i>	<i>-</i>	<i>-</i>	<i>666.059</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>666.059</i>

Support - Support End Item Cost

Program Support Costs (PSC) Contractor Services	-	-	18.065	-	-	4.094	-	-	4.461	-	-	4.580	-	-	-	-	-	4.580
Program Support Costs (PSC) Other Government Costs	-	-	6.373	-	-	0.630	-	-	1.651	-	-	1.653	-	-	-	-	-	1.653
Test Support/Reliability/ Obsolescence	-	-	265.730	-	-	47.269	-	-	79.226	-	-	81.248	-	-	-	-	-	81.248
Prime Contractor Support	-	-	44.300	-	-	-	-	-	11.751	-	-	12.064	-	-	-	-	-	12.064

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Exhibit P-5, Cost Analysis: PB 2023 Air Force												Date: April 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2						P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile						Item Number / Title [DODIC]: Joint Air-Surface Standoff Missile					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Facilitization	-	-	140.657	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Factory/Ramp-up	-	-	-	-	-	19.784	-	-	29.742	-	-	19.367	-	-	-	-	-	19.367
<i>Subtotal: Support - Support End Item Cost</i>	-	-	475.125	-	-	71.777	-	-	126.831	-	-	118.912	-	-	-	-	-	118.912
Gross/Weapon System Cost	1.384	2,010	2,782.508	1.234	400	493.439	1.353	525	710.550	1.427	550	784.971	-	-	-	1.427	550	784.971

Remarks:

FY23 prime contractor funding supports engineering practices to increase producibility, capability, and affordability, and to improve engineering and manufacturing processes of existing and future units when applicable.

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile	Item Number / Title [DODIC]: Joint Air-Surface Standoff Missile
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
AGM-158B ^(†)		2021	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Feb 2021	Feb 2024	360	0.995	Y		Mar 2020
AGM-158B ^(†)		2022	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Nov 2021	Feb 2025	280	0.989	Y		Jun 2021
AGM-158B-2 ^(†)		2021	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Jul 2022	Feb 2024	40	1.216	Y		Mar 2020
AGM-158B-2 ^(†)		2022	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Dec 2022	Feb 2025	210	1.123	Y		Jun 2021
AGM-158B-2 ^(†)		2023	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Mar 2023	Feb 2026	430	1.126	Y		Jun 2022
AGM-158D ^(†)		2022	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Feb 2024	Jul 2025	35	1.551	Y		Jun 2021
AGM-158D ^(†)		2023	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Aug 2024	Feb 2026	80	1.565	Y		Jun 2022
AGM-158B-3 ^(†)		2023	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Nov 2024	Feb 2026	40	1.126	Y		Jun 2022

^(†) indicates the presence of a P-21

Remarks:

The variants in development will be gradually inserted into the production line as a new missile build once ready. DD-250'd missiles will not be returned for modification to the newest variant.

The Lot 19 contract was awarded in February 2021 for 400 AGM-158Bs. A contract modification to change 40 of the missiles to AGM-158B-2 is projected in July 2022.

The Lot 20 contract was awarded in November 2021 for up to 525 AGM-158Bs. A contract modification to change 245 of the AGM-158B missiles to AGM-158B-2 is projected in December 2022. A contract modification to change 35 of the AGM-158B-2 missiles to AGM-158D is projected in February 2024.

The Lot 21 contract is projected to award in March 2023 for 550 AGM-158B-2s. A contract modification to change 80 of the AGM-158B-2 missiles to AGM-158D is projected in August 2024. A contract modification to change 40 of the AGM-158B-2 missiles to AGM-158B-3 is projected in November 2024. AGM-158B-3 is required to meet congressional M-code mandate.

AGM-158B-2 and AGM-15B-3 unit costs are the same because the only difference is the GPS receiver type and the current approved cost estimate assumes the different receivers are the same cost.

The unit cost increase of the AGM-158D is due to the addition of the Weapon Data Link (WDL) capability.

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile	Item Number / Title [DODIC]: Joint Air-Surface Standoff Missile
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
AGM-158B																															
Prior Years Deliveries: 2010																															
	1	2021	AF	360	0	360																							360		
	1	2022	AF	280	0	280																							280		
AGM-158B-2																															
	2	2021	AF	40	0	40																							40		
	2	2022	AF	210	0	210																							210		
	2	2023	AF	430	0	430																							430		
AGM-158D																															
	3	2022	AF	35	0	35																							35		
	3	2023	AF	80	0	80																							80		
AGM-158B-3																															
	4	2023	AF	40	0	40																							40		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile	Item Number / Title [DODIC]: Joint Air-Surface Standoff Missile
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE						
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								
AGM-158B																																						
Prior Years Deliveries: 2010																																						
	1	2021	AF	360	0	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	30	30	30	30	30	30	30	120
	1	2022	AF	280	0	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	
AGM-158B-2																																						
	2	2021	AF	40	0	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	6	6	6	7	7	7	0	
	2	2022	AF	210	0	210			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210		
	2	2023	AF	430	0	430																														430		
AGM-158D																																						
	3	2022	AF	35	0	35																														35		
	3	2023	AF	80	0	80																														80		
AGM-158B-3																																						
	4	2023	AF	40	0	40																														40		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile	Item Number / Title [DODIC]: Joint Air-Surface Standoff Missile
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2025														Fiscal Year 2026														BALANCE		
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025														Calendar Year 2026														
							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					
AGM-158B																																			
Prior Years Deliveries: 2010																																			
	1	2021	AF	360	240	120	30	30	30																									0	
	1	2022	AF	280	0	280	-	-	-	-	24	24	24	24	23	23	23	23	23	23	23													0	
AGM-158B-2																																			
	2	2021	AF	40	40	0																											0		
	2	2022	AF	210	0	210	-	-	-	-	17	17	17	17	17	17	18	18	18	18	18												0		
	2	2023	AF	430	0	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	35	36	36	36	36	36	36	36	36	144			
AGM-158D																																			
	3	2022	AF	35	0	35	-	-	-	-	-	-	-	-	4	4	5	5	5	6	6											0			
	3	2023	AF	80	0	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	7	7	7	7	7	28				
AGM-158B-3																																			
	4	2023	AF	40	0	40		A	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	16			
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
							C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	F	A	A	U	U	A	S					
							T	V	C	N	B	R	P	Y	N	L	G	P	T	V	C	N	B	R	P	Y	N	L	A	S					

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** JASSM0 / Joint Air-Surface Standoff Missile **Item Number / Title [DODIC]:** Joint Air-Surface Standoff Missile

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2027													Fiscal Year 2028													BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2026	BAL DUE AS OF 1 OCT	Calendar Year 2027													Calendar Year 2028													
							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			
AGM-158B																																	
Prior Years Deliveries: 2010																																	
	1	2021	AF	360	360	0																											0
	1	2022	AF	280	280	0																											0
AGM-158B-2																																	
	2	2021	AF	40	40	0																											0
	2	2022	AF	210	210	0																											0
	2	2023	AF	430	286	144	36	36	36	36																							0
AGM-158D																																	
	3	2022	AF	35	35	0																											0
	3	2023	AF	80	52	28	7	7	7	7																							0
AGM-158B-3																																	
	4	2023	AF	40	24	16	4	4	4	4																							0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Air Force	Date: April 2021
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile	Item Number / Title [DODIC]: Joint Air-Surface Standoff Missile
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Lockheed Martin - Troy, Alabama	1	1	1	0	0	0	0	0	1	2	39	41
2	Lockheed Martin - Troy, Alabama	96	96	430	0	0	0	0	0	1	6	35	41
3	Lockheed Martin - Troy, Alabama	80	80	80	1	23	18	41	41	0	0	0	0
4	Lockheed Martin - Troy, Alabama	40	40	40	1	26	15	41	41	0	0	0	0

Remarks:
Production Rate MAX changed to 1 for AGM-158B since no AGM-158Bs are planned in FY23.

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** LRASM0 / LRASM0

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207325F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 449

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	50	6	-	28	-	28	21	20	24	30	-	179
Gross/Weapon System Cost (<i>\$ in Millions</i>)	187.524	19.800	0.000	114.025	-	114.025	87.300	87.316	104.891	92.377	0.000	693.233
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	187.524	19.800	0.000	114.025	-	114.025	87.300	87.316	104.891	92.377	0.000	693.233
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	187.524	19.800	0.000	114.025	-	114.025	87.300	87.316	104.891	92.377	0.000	693.233

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	5.198	-	5.198	0.521	0.521	0.517	0.515	-	7.272
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	3.750	3.300	-	4.072	-	4.072	4.157	4.366	4.370	3.079	-	3.873

Description:

The Long Range Anti-Ship Missile (LRASM) is a near-term solution for the Offensive Anti-Surface Warfare (OASuW) air-launch capability gap that provides flexible, long-range, advanced, anti-surface capability against high-threat maritime targets. The Navy is the lead service for the LRASM program.

The missile was developed based on the Joint Air-to-Surface Standoff Missile-Extended Range (JASSM-ER). LRASM achieved Early Operational Capability (EOC) in December 2018 on the U.S. Air Force B-1 Lancer and EOC on the U.S. Navy F/A-18E/F Super Hornet in November 2019.

FY23 funds AGM-158C All-Up-Rounds (AUR) in production lot 7 for the LRASM Program.

The program transitions the Defense Advanced Research Projects Agency (DARPA)/Office of Naval Research (ONR) LRASM demonstration design into a fielded weapon system which supports an increased offensive strike capability. Funds may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues. The program also plans to use funds to address 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 and reliability activities to preserve future production capabilities and capacities.

Funding for this exhibit is contained in PE 0207325F.

Additional funding for this exhibit is also contained in Navy PE 0604786N Offensive Anti-Surface Warfare Weapon Dev.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** LRASM0 / LRASM0

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207325F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 449

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	LRASM0	P-5a, P-21	B		50 / 187.524	6 / 19.800	- / 0.000	28 / 114.025	- / -	28 / 114.025
P-40	Total Gross/Weapon System Cost				50 / 187.524	6 / 19.800	- / 0.000	28 / 114.025	- / -	28 / 114.025

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

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

Justification:
FY2023 funding totals include \$114.025M in base to procure 28 missiles.

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

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Exhibit P-5, Cost Analysis: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: LRASMO / LRASMO	Item Number / Title [DODIC]: LRASMO

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (<i>Units in Each</i>)	50	6	-	28	-	28
Gross/Weapon System Cost (<i>\$ in Millions</i>)	187.524	19.800	0.000	114.025	-	114.025
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	187.524	19.800	0.000	114.025	-	114.025
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	187.524	19.800	0.000	114.025	-	114.025

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

Initial Spares (<i>\$ in Millions</i>)	0.000	0.000	0.000	5.198	-	5.198
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	3.750	3.300	-	4.072	-	4.072

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - LRASM Cost																		
Recurring Cost																		
LRASM All-Up-Round (AUR) ^(†)	3.750	50	187.524	2.925	6	17.551	-	-	0.000	3.577	28	100.143	-	-	-	3.577	28	100.143
Tooling	-	-	-	-	-	1.599	-	-	-	-	-	7.860	-	-	-	-	-	7.860
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>187.524</i>	<i>-</i>	<i>-</i>	<i>19.150</i>	<i>-</i>	<i>-</i>	<i>0.000</i>	<i>-</i>	<i>-</i>	<i>108.003</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>108.003</i>
<i>Subtotal: Hardware - LRASM Cost</i>	<i>-</i>	<i>-</i>	<i>187.524</i>	<i>-</i>	<i>-</i>	<i>19.150</i>	<i>-</i>	<i>-</i>	<i>0.000</i>	<i>-</i>	<i>-</i>	<i>108.003</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>108.003</i>
Support - LRASM Cost																		
Program Support Costs (PSC)-A&AS	-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
Program Support Costs (PSC)-Gov't Cost	-	-	-	-	-	0.150	-	-	-	-	-	1.388	-	-	-	-	-	1.388
Engineering Change Order (ECO)/Obsolescence	-	-	-	-	-	-	-	-	-	-	-	4.634	-	-	-	-	-	4.634
<i>Subtotal: Support - LRASM Cost</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.650</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>6.022</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>6.022</i>
Gross/Weapon System Cost	3.750	50	187.524	3.300	6	19.800	-	-	0.000	4.072	28	114.025	-	-	-	4.072	28	114.025

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: LRASM0 / LRASM0	Item Number / Title [DODIC]: LRASM0
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LRASM All-Up-Round (AUR) ^(†)		2018	Lockheed Martin / Troy, AL	SS / FPIF	Eglin AFB	Nov 2018	Jul 2021	16	3.443	N	Jan 2017	Jan 2017
LRASM All-Up-Round (AUR) ^(†)		2019	Lockheed Martin / Troy, AL	SS / FPIF	Eglin AFB	Apr 2020	Aug 2022	15	3.443	N	Jan 2019	Jan 2019
LRASM All-Up-Round (AUR) ^(†)		2021	Lockheed Martin / Troy, AL	SS / FFP	Eglin AFB	Feb 2021	Oct 2023	6	2.925	N	Jan 2020	Feb 2020
LRASM All-Up-Round (AUR) ^(†)		2023	Lockheed Martin / Troy, AL	SS / FFP	Eglin AFB	Feb 2023	May 2025	28	3.577	N	Jan 2021	Jan 2022

^(†) indicates the presence of a P-21

Remarks:

Lot 5 (FY2021) was the first year of Air Force procurement for the LRASM v1.1 configuration.

FY 2021 (Lot 5) was procured at a lower unit cost due to a combined award with FY 2020 (Lot 4), and increased the overall AUR total quantity across those years. FY 2023 and beyond realize a stabilized unit cost due to reduced overall quantities with a single lot procurement.

Lot 7 (FY2023) will procure LRASM v1.1 configuration.

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: LRASM0 / LRASM0	Item Number / Title [DODIC]: LRASM0
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019														Fiscal Year 2020														BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019														Calendar Year 2020														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
LRASM All-Up-Round (AUR)																																			
Prior Years Deliveries: 19																																			
1	2018	AF		16	0	16		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16			
1	2018	NAVY ^(‡) (1)		35	0	35		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35				
1	2018	Total		51	0	51		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51				
1	2019	AF		15	0	15																									15				
1	2019	NAVY ^(‡)		33	0	33																									33				
1	2019	Total		48	0	48																									48				
1	2021	AF		6	0	6																									6				
1	2021	FMS ^(‡)		69	0	69																									69				
1	2021	NAVY ^(‡)		43	0	43																									43				
1	2021	Total		118	0	118																									118				
1	2023	AF		28	0	28																									28				
1	2023	NAVY ^(‡)		60	0	60																									60				
1	2023	Total		88	0	88																									88				
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S				
								C	O	E	A	E	A	A	U	U	U	S	C	O	V	E	A	E	A	A	U	U	U	A	S				
								T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P				

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: LRASM0 / LRASM0	Item Number / Title [DODIC]: LRASM0
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2021													Fiscal Year 2022												BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
LRASM All-Up-Round (AUR)																																
Prior Years Deliveries: 19																																
1	2018	AF		16	0	16	-	-	-	-	-	-	-	-	-	2	4	4	4	2										0		
1	2018	NAVY ^(‡) (1)		35	0	35	4	4	4	4	3	2	2	4	4	4	-	-	-	-										0		
1	2018	Total		51	0	51	4	4	4	4	3	2	2	4	4	6	4	4	4	2									0			
1	2019	AF		15	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	10		
1	2019	NAVY ^(‡)		33	0	33	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	4	4	4	4	4	4	3	-	0		
1	2019	Total		48	0	48														3	3	4	4	4	4	4	4	4	4	10		
1	2021	AF		6	0	6					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6		
1	2021	FMS ^(‡)		69	0	69					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69		
1	2021	NAVY ^(‡)		43	0	43					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43		
1	2021	Total		118	0	118																								118		
1	2023	AF		28	0	28																								28		
1	2023	NAVY ^(‡)		60	0	60																								60		
1	2023	Total		88	0	88																								88		
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S		
							C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	E	A	A	U	U	U	U	E	
							T	V	C	N	B	R	P	Y	N	L	G	P	T													

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: LRASMO / LRASMO	Item Number / Title [DODIC]: LRASMO
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
LRASM All-Up-Round (AUR)																															
Prior Years Deliveries: 19																															
1	2018	AF		16	16	0																							0		
1	2018	NAVY ^(‡) (1)		35	35	0																							0		
1	2018	Total		51	51	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
1	2019	AF		15	5	10	5	5																					0		
1	2019	NAVY ^(‡)		33	33	0	-	-																					0		
1	2019	Total		48	38	10	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
1	2021	AF		6	0	6	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	0		
1	2021	FMS ^(‡)		69	0	69	-	-	-	-	-	-	-	-	-	4	8	9	9	9	9	9	8	8	5			0			
1	2021	NAVY ^(‡)		43	0	43	-	-	-	-	-	2	4	7	10	10	10	-	-	-	-	-	-	-	-	-	-	-	0		
1	2021	Total		118	0	118	-	-	-	-	-	2	4	7	10	10	10	10	8	9	9	9	8	8	5	-	-	0			
1	2023	AF		28	0	28																						28			
1	2023	NAVY ^(‡)		60	0	60																						60			
1	2023	Total		88	0	88																						88			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: LRASMO / LRASMO	Item Number / Title [DODIC]: LRASMO
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025													Fiscal Year 2026													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026														
							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				
LRASM All-Up-Round (AUR)																																		
Prior Years Deliveries: 19																																		
1	2018	AF		16	16	0																												0
1	2018	NAVY ^(‡) (1)		35	35	0																												0
1	2018	Total		51	51	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2019	AF		15	15	0																												0
1	2019	NAVY ^(‡)		33	33	0																												0
1	2019	Total		48	48	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
1	2021	AF		6	6	0																												0
1	2021	FMS ^(‡)		69	69	0																												0
1	2021	NAVY ^(‡)		43	43	0																												0
1	2021	Total		118	118	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
1	2023	AF		28	0	28	-	-	-	-	-	-	-	3	9	9	7																	0
1	2023	NAVY ^(‡)		60	0	60	-	5	9	9	10	10	10	7	-	-	-																0	
1	2023	Total		88	0	88	-	5	9	9	10	10	10	10	9	9	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2023 Air Force								Date: April 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2					P-1 Line Item Number / Title: LRASMO / LRASMO				Item Number / Title [DODIC]: LRASMO			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - Troy, AL	36	60	120	1	5	27	32	0	0	0	0

Remarks:
 USN deliveries are not included in P-21 for Lot 4 (FY20 funding) and Lot 6 (FY21 funding) because there were no quantities procured by the USAF in those years.
 Minimum Sustainment Rate (MSR) includes USAF, USN, and FMS.

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

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

Footnotes:
 (1) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2020 loaded in the month of first delivery.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** M09HAI / Sidewinder (AIM-9X)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207161F

Line Item MDAP/MAIS Code: 442

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	2,822	277	230	255	-	255	192	218	240	234	1,841	6,309
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,192.937	119.769	102.507	111.855	-	111.855	95.102	106.064	126.730	128.778	1,131.235	3,114.977
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,192.937	119.769	102.507	111.855	-	111.855	95.102	106.064	126.730	128.778	1,131.235	3,114.977
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,192.937	119.769	102.507	111.855	-	111.855	95.102	106.064	126.730	128.778	1,131.235	3,114.977

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

Initial Spares (<i>\$ in Millions</i>)	22.806	1.861	2.659	2.801	-	2.801	2.023	2.060	2.084	2.117	38.433	76.844
Flyaway Unit Cost (<i>\$ in Millions</i>)	0.386	0.392	0.371	0.401	-	0.401	0.447	0.441	0.487	0.516	0.567	0.451
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.423	0.432	0.446	0.439	-	0.439	0.495	0.487	0.528	0.550	0.614	0.494

Description:

The AIM-9X Block II/II+ Sidewinder (AIM-9X Bk II/II+) continues the evolution of the AIM-9 series of missiles. This missile program delivers a launch and leave, air combat munition that uses passive Infrared (IR) energy to acquire and track enemy air targets and complements the radar guided Advanced Medium Range Air-to-Air Missile (AMRAAM). The missile provides first shot, first kill opportunities while conducting air combat maneuvering Within Visual Range (WVR) which is essential for aircrew survival. The AIM-9X provides these opportunities with unmatched offensive and defensive capabilities against threats WVR, even when IR countermeasures are employed.

The AIM-9X also provides air superiority in the Beyond Visual Range (BVR) air-to-air battle. Anti-tamper features have been incorporated to protect improvements inherent in this design. The AIM-9X Block II missile is critical for projecting power and winning decisively against threats identified in Defense Planning Guidance and the Air Force Strategic Master Plan.

AIM-9X is a Post Milestone C, Acquisition Category IC (ACAT-IC) joint service program led by the Department of the Navy. In June 2011, the Milestone Decision Authority (MDA) established the AIM-9X Block II missile program which was approved for entry at Milestone C for Low Rate Initial Production (LRIP). The Block I program ended with the Sec 2366 A/B certification and Acquisition Program Baseline for AIM-9X Block II approval on December 23, 2011. In August 2015, the program received approval for Full Rate Production (FRP), and the Acquisition Program Baseline was re-established.

In December 2017, the program began to procure a third variant of the missile labeled the AIM-9X Block II PLUS (Block II+) to satisfy the requirements of the Joint Strike Fighter platform. This version of the missile is being produced on the same production line as the AIM-9X Block II missile. For contracting purposes, the nomenclature of the AIM-9X Block II missile is identified as AIM-9X-2 and the AIM-9X Block II+ missile is identified as AIM-9X-3.

In February 2019, the Acquisition Program Baseline for Navy and USAF was revised to increase total missile procurements from 6,000 to 11,635 missiles and to extend missile procurements through 2035.

Funding for this exhibit contained in PE 0207161F.

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** M09HAI / Sidewinder (AIM-9X)

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207161F

Line Item MDAP/MAIS Code: 442

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	Sidewinder (AIM-9X)	P-5a, P-21	A		2,822 / 1,192.937	277 / 119.769	230 / 102.507	255 / 111.855	- / -	255 / 111.855
P-40	Total Gross/Weapon System Cost				2,822 / 1,192.937	277 / 119.769	230 / 102.507	255 / 111.855	- / -	255 / 111.855

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

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

Justification:
 FY 2023 provides funding to procure the ninth lot of Full Rate Production (FRP) AIM-9X Block II (Blk II) missiles, as well as the seventh lot of AIM-9X Block II Plus (Blk II+) missiles for the Air Force. FY 2023 funding was realigned to RDT&E (3600) for SIP IV development to support hardware and software upgrades. The program unit costs are based on quantities procured by the Department of the Navy and US Air Force as well as Foreign Military Sales customers.

Total Program quantity by service includes a mix of All Up Round (AUR) missiles and Captive Air Training Missiles (CATM).

Funding may be used to resolve production Diminishing Manufacturing Sources/Material Shortages/Obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement and qualification activities to preserve future production capabilities and capacities.

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

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Exhibit P-5, Cost Analysis: PB 2023 Air Force											Date: April 2021				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2				P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)							Item Number / Title [DODIC]: Sidewinder (AIM-9X)				
ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	
Procurement Quantity (Units in Each)				2,822		277		230		255		-		255	
Gross/Weapon System Cost (\$ in Millions)				1,192.937		119.769		102.507		111.855		-		111.855	
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-	
Net Procurement (P-1) (\$ in Millions)				1,192.937		119.769		102.507		111.855		-		111.855	
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-	
Total Obligation Authority (\$ in Millions)				1,192.937		119.769		102.507		111.855		-		111.855	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>															
Initial Spares (\$ in Millions)				22.806		1.861		2.659		2.801		-		2.801	
Gross/Weapon System Unit Cost (\$ in Millions)				0.423		0.432		0.446		0.439		-		0.439	

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Flyaway End Item Cost																		
Recurring Cost																		
All Up Round - Block II ^(f)	0.391	1,968	768.848	0.377	187	70.491	0.410	142	58.214	0.413	167	68.951	-	-	-	0.413	167	68.951
Captive Air Training Missile (CATM) - Block II ^(f)	0.215	638	136.949	0.216	82	17.729	0.243	80	19.431	0.201	80	16.062	-	-	-	0.201	80	16.062
Engineering Change Orders - Block II	-	-	2.038	-	-	0.000	-	-	0.000	-	-	2.341	-	-	-	-	-	2.341
Diminishing Manufacturing Sources	-	-	19.867	-	-	4.336	-	-	7.812	-	-	10.413	-	-	-	-	-	10.413
Government Cost (GFE & Testing) - Block II	-	-	0.660	-	-	0.247	-	-	0.101	-	-	0.040	-	-	-	-	-	0.040
Special Test/Special Tooling Equipment - Block II	-	-	17.638	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Missile Containers - Block II	0.013	782	9.981	0.013	75	0.973	0.014	66	0.894	0.012	68	0.823	-	-	-	0.012	68	0.823
Non-Recurring Engineering - Block II	-	-	39.784	-	-	11.471	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
All Up Round - Block II Plus ^(f)	0.428	216	92.382	0.424	8	3.389	0.455	8	3.643	0.460	8	3.679	-	-	-	0.460	8	3.679
<i>Subtotal: Recurring Cost</i>	-	-	1,088.147	-	-	108.636	-	-	90.095	-	-	102.309	-	-	-	-	-	102.309

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Exhibit P-5, Cost Analysis: PB 2023 Air Force												Date: April 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2						P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)						Item Number / Title [DODIC]: Sidewinder (AIM-9X)					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	1,088.147	-	-	108.636	-	-	90.095	-	-	102.309	-	-	-	-	-	102.309
Support - Support End Item Cost																		
Production Tech Support	-	-	30.169	-	-	3.888	-	-	3.701	-	-	3.451	-	-	-	-	-	3.451
Peculiar Support Equipment - Block II	-	-	0.382	-	-	0.000	-	-	0.000	-	-	0.040	-	-	-	-	-	0.040
Test Equipment - Block II	-	-	10.682	-	-	0.803	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Program Support Costs (PSC) Contractor Services - Block II	-	-	12.672	-	-	0.687	-	-	0.725	-	-	1.419	-	-	-	-	-	1.419
PSC Other Government Costs - Block II	-	-	50.741	-	-	5.708	-	-	7.892	-	-	4.594	-	-	-	-	-	4.594
Training Support - Block II	-	-	0.144	-	-	0.047	-	-	0.094	-	-	0.042	-	-	-	-	-	0.042
<i>Subtotal: Support - Support End Item Cost</i>	-	-	104.790	-	-	11.133	-	-	12.412	-	-	9.546	-	-	-	-	-	9.546
Gross/Weapon System Cost	0.423	2,822	1,192.937	0.432	277	119.769	0.446	230	102.507	0.439	255	111.855	-	-	-	0.439	255	111.855

Remarks:

The program is in production and any changes that will occur, prior to or after fielding, are software changes. Hardware specs are available and being used to manufacture the missile. Baseline software specs are known.

The FY21 Lot 21 Contract awarded in June 2021 and procured the Full Rate Production (FRP) missile.

Under Buy to Budget Authority, the Air Force procured 277 missiles in Lot 21.

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)	Item Number / Title [DODIC]: Sidewinder (AIM-9X)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
All Up Round - Block II ^(†)		2019	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Apr 2019	Sep 2021	176	0.381	Y		Jan 2018
All Up Round - Block II ^(†)		2020	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Mar 2020	Aug 2022	303	0.371	Y		Jan 2019
All Up Round - Block II ^(†)		2021	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Jun 2021	Aug 2023	187	0.377	Y		Jan 2020
All Up Round - Block II ^(†)		2022	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Mar 2022	Aug 2024	142	0.410	Y		Jan 2021
All Up Round - Block II ^(†)		2023	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Mar 2023	Aug 2025	167	0.413	Y		Jan 2022
Captive Air Training Missile (CATM) - Block II ^(†)		2019	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Apr 2019	Sep 2021	15	0.209	Y		Jan 2018
Captive Air Training Missile (CATM) - Block II ^(†)		2020	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Mar 2020	Aug 2022	130	0.202	Y		Jan 2019
Captive Air Training Missile (CATM) - Block II ^(†)		2021	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Jun 2021	Aug 2023	82	0.216	Y		Jan 2020
Captive Air Training Missile (CATM) - Block II ^(†)		2022	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Mar 2022	Aug 2024	80	0.243	Y		Jan 2021
Captive Air Training Missile (CATM) - Block II ^(†)		2023	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Mar 2023	Aug 2025	80	0.201	Y		Jan 2022
All Up Round - Block II Plus ^(†)		2019	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Apr 2019	Sep 2021	80	0.400	Y		Jan 2018
All Up Round - Block II Plus ^(†)		2020	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Mar 2020	Aug 2022	11	0.494	Y		Jan 2019
All Up Round - Block II Plus ^(†)		2021	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Jun 2021	Aug 2023	8	0.424	Y		Jan 2020
All Up Round - Block II Plus ^(†)		2022	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Mar 2022	Aug 2024	8	0.455	Y		Jan 2021
All Up Round - Block II Plus ^(†)		2023	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Mar 2023	Aug 2025	8	0.460	Y		Jan 2022

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** M09HAI / Sidewinder (AIM-9X) **Item Number / Title [DODIC]:** Sidewinder (AIM-9X)

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2019														Fiscal Year 2020														B A L A N C E			
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 8	BAL D U E A S O F 1 O C T	Calendar Year 2019														Calendar Year 2020														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
All Up Round - Block II																																			
Prior Years Deliveries: 1489																																			
1	2019	AF		176	0	176																													
1	2019	FMS (+)		190	0	190																													
1	2019	NAVY (+)		235	0	235																													
1	2019	Total		601	0	601																								601					
1	2020	AF		303	0	303																													
1	2020	FMS (+)		199	0	199																													
1	2020	NAVY (+)		227	0	227																													
1	2020	Total		729	0	729																							729						
1	2021	AF		187	0	187																													
1	2021	FMS (+)		84	0	84																													
1	2021	NAVY (+)		232	0	232																													
1	2021	Total		503	0	503																							503						
1	2022	AF		142	0	142																													
1	2022	FMS (+)		157	0	157																													
1	2022	NAVY (+)		93	0	93																													
1	2022	Total		392	0	392																							392						
1	2023	AF		167	0	167																													
1	2023	FMS (+)		100	0	100																													
1	2023	NAVY (+)		72	0	72																													
1	2023	Total		339	0	339																							339						
Captive Air Training Missile (CATM) - Block II																																			
Prior Years Deliveries: 493																																			
2	2019	AF		15	0	15																													
2	2019	FMS (+)		34	0	34																													
2	2019	NAVY (+)		75	0	75																													
2	2019	Total		124	0	124																							124						
2	2020	AF		130	0	130																													
2	2020	FMS (+)		20	0	20																													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)	Item Number / Title [DODIC]: Sidewinder (AIM-9X)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019														Fiscal Year 2020														BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019														Calendar Year 2020														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
	3	2023	Total	72	0	72																													72
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** M09HAI / Sidewinder (AIM-9X) **Item Number / Title [DODIC]:** Sidewinder (AIM-9X)

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2021														Fiscal Year 2022														BALANCE			
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
All Up Round - Block II																																			
Prior Years Deliveries: 1489																																			
1	2019	AF		176	0	176	-	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	16	16	16	-		0				
1	2019	FMS (+)		190	0	190	-	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16	16	16	16	16	16	15	15		0				
1	2019	NAVY (+)		235	0	235	-	-	-	-	-	-	-	-	-	-	22	22	22	22	21	21	21	21	21	21	21	-		0					
1	2019	Total		601	0	601	-	-	-	-	-	-	-	-	-	-	54	54	54	54	53	53	53	53	53	53	52	15	-	0					
1	2020	AF		303	0	303	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	25	253					
1	2020	FMS (+)		199	0	199	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17	165					
1	2020	NAVY (+)		227	0	227	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	20	187					
1	2020	Total		729	0	729	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	62	605					
1	2021	AF		187	0	187											A -	-	-	-	-	-	-	-	-	-	-	-	-	187					
1	2021	FMS (+)		84	0	84											A -	-	-	-	-	-	-	-	-	-	-	-	-	84					
1	2021	NAVY (+)		232	0	232											A -	-	-	-	-	-	-	-	-	-	-	-	-	232					
1	2021	Total		503	0	503											-	-	-	-	-	-	-	-	-	-	-	-	-	503					
1	2022	AF		142	0	142																								142					
1	2022	FMS (+)		157	0	157																								157					
1	2022	NAVY (+)		93	0	93																								93					
1	2022	Total		392	0	392																								392					
1	2023	AF		167	0	167																								167					
1	2023	FMS (+)		100	0	100																								100					
1	2023	NAVY (+)		72	0	72																								72					
1	2023	Total		339	0	339																								339					
Captive Air Training Missile (CATM) - Block II																																			
Prior Years Deliveries: 493																																			
2	2019	AF		15	0	15	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	2	2	2	2			0					
2	2019	FMS (+)		34	0	34	-	-	-	-	-	-	-	-	-	-	4	4	4	3	3	3	3	3	3	2	2			0					
2	2019	NAVY (+)		75	0	75	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7	7	6	6			0					
2	2019	Total		124	0	124	-	-	-	-	-	-	-	-	-	-	12	12	12	11	11	11	11	12	12	10	10	-	-	0					
2	2020	AF		130	0	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	108					
2	2020	FMS (+)		20	0	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	16					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** M09HAI / Sidewinder (AIM-9X) **Item Number / Title [DODIC]:** Sidewinder (AIM-9X)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
All Up Round - Block II																																		
Prior Years Deliveries: 1489																																		
1	2019	AF		176	176	0																												0
1	2019	FMS (+)		190	190	0																												0
1	2019	NAVY (+)		235	235	0																												0
1	2019	Total		601	601	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2020	AF		303	50	253	26	25	25	25	25	25	26	26	25																			0
1	2020	FMS (+)		199	34	165	17	17	17	17	17	16	16	16	16																			0
1	2020	NAVY (+)		227	40	187	19	19	19	19	19	19	18	18	18																			0
1	2020	Total		729	124	605	62	61	61	61	61	60	60	60	60	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2021	AF		187	0	187	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16	16	16	15	15	15	15	15					0	
1	2021	FMS (+)		84	0	84	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7	7	7	7	7					0		
1	2021	NAVY (+)		232	0	232	-	-	-	-	-	-	-	-	-	20	20	20	20	19	19	19	19	19	19	19	19					0		
1	2021	Total		503	0	503	-	-	-	-	-	-	-	-	-	43	43	43	43	42	42	42	41	41	41	41	41	-	-	-	-	0		
1	2022	AF		142	0	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12			118		
1	2022	FMS (+)		157	0	157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	13			130		
1	2022	NAVY (+)		93	0	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8			77		
1	2022	Total		392	0	392	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	33			325			
1	2023	AF		167	0	167						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	167		
1	2023	FMS (+)		100	0	100						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100		
1	2023	NAVY (+)		72	0	72						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72		
1	2023	Total		339	0	339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	339	
Captive Air Training Missile (CATM) - Block II																																		
Prior Years Deliveries: 493																																		
2	2019	AF		15	15	0																											0	
2	2019	FMS (+)		34	34	0																											0	
2	2019	NAVY (+)		75	75	0																											0	
2	2019	Total		124	124	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
2	2020	AF		130	22	108	11	11	11	11	11	11	11	10	10																		0	
2	2020	FMS (+)		20	4	16	2	2	2	2	2	2	1	1	1																		0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** M09HAI / Sidewinder (AIM-9X) **Item Number / Title [DODIC]:** Sidewinder (AIM-9X)

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2023													Fiscal Year 2024													BALANCE					
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						
	2	2020	NAVY (+)	75	14	61	7	6	6	6	6	6	6	6	6																					0
	2	2020	Total	225	40	185	20	19	19	19	19	18	18	17	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	2	2021	AF	82	0	82	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	0	
	2	2022	AF	80	0	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	66		
	2	2022	NAVY (+)	51	0	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	41			
	2	2022	Total	131	0	131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	107			
	2	2023	AF	80	0	80										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80		
	2	2023	FMS (+)	20	0	20										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20		
	2	2023	NAVY (+)	48	0	48										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48		
	2	2023	Total	148	0	148										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	148		
All Up Round - Block II Plus																																				
Prior Years Deliveries: 125																																				
	3	2019	AF	80	80	0																													0	
	3	2019	FMS (+)	153	153	0																													0	
	3	2019	NAVY (+)	8	8	0																													0	
	3	2019	Total	241	241	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	3	2020	AF	11	2	9	1	1	1	1	1	1	1	1	-																			0		
	3	2020	NAVY (+)	8	2	6	-	1	1	-	1	1	-	1	1																			0		
	3	2020	Total	19	4	15	1	2	2	1	2	2	1	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	3	2021	AF	8	0	8	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0		
	3	2021	FMS (+)	66	0	66	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	0		
	3	2021	NAVY (+)	8	0	8	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0		
	3	2021	Total	82	0	82	-	-	-	-	-	-	-	-	8	8	8	8	8	8	8	7	6	6	5	5	5	5	5	5	5	5	0			
	3	2022	AF	8	0	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	6			
	3	2022	FMS (+)	6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	4			
	3	2022	NAVY (+)	8	0	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	6			
	3	2022	Total	22	0	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	16				
	3	2023	AF	8	0	8										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8		
	3	2023	FMS (+)	56	0	56										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56		
	3	2023	NAVY (+)	8	0	8										A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** M09HAI / Sidewinder (AIM-9X) **Item Number / Title [DODIC]:** Sidewinder (AIM-9X)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
	3	2023	Total	72	0	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** M09HAI / Sidewinder (AIM-9X) **Item Number / Title [DODIC]:** Sidewinder (AIM-9X)

Cost Elements (Units in Each)						Fiscal Year 2025													Fiscal Year 2026													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026														
							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				
All Up Round - Block II																																		
Prior Years Deliveries: 1489																																		
1	2019	AF		176	176	0																												0
1	2019	FMS (+)		190	190	0																												0
1	2019	NAVY (+)		235	235	0																												0
1	2019	Total		601	601	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2020	AF		303	303	0																												0
1	2020	FMS (+)		199	199	0																												0
1	2020	NAVY (+)		227	227	0																												0
1	2020	Total		729	729	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
1	2021	AF		187	187	0																												0
1	2021	FMS (+)		84	84	0																												0
1	2021	NAVY (+)		232	232	0																												0
1	2021	Total		503	503	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
1	2022	AF		142	24	118	12	12	12	12	12	12	12	11	11																			0
1	2022	FMS (+)		157	27	130	13	13	13	13	13	13	13	13	13																			0
1	2022	NAVY (+)		93	16	77	8	8	8	8	8	8	7	7	7																			0
1	2022	Total		392	67	325	33	33	33	33	33	33	32	31	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2023	AF		167	0	167	-	-	-	-	-	-	-	-	-	13	13	13	13	13	13	13	13	13	13	13	13	13	12	12			0	
1	2023	FMS (+)		100	0	100	-	-	-	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8	8	8	7	7	7	7			0	
1	2023	NAVY (+)		72	0	72	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5			0	
1	2023	Total		339	0	339	-	-	-	-	-	-	-	-	-	27	27	27	27	27	27	27	27	26	26	25	25	24	24	-	-	0		
Captive Air Training Missile (CATM) - Block II																																		
Prior Years Deliveries: 493																																		
2	2019	AF		15	15	0																											0	
2	2019	FMS (+)		34	34	0																											0	
2	2019	NAVY (+)		75	75	0																											0	
2	2019	Total		124	124	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
2	2020	AF		130	130	0																												0
2	2020	FMS (+)		20	20	0																												0
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)	Item Number / Title [DODIC]: Sidewinder (AIM-9X)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025													Fiscal Year 2026													BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							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			
	3	2023	Total	72	0	72	-	-	-	-	-	-	-	-	-	7	5	7	7	6	6	7	5	6	6	5	5	-	-	0			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Air Force	Date: April 2021
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)	Item Number / Title [DODIC]: Sidewinder (AIM-9X)
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Raytheon Missile Systems - Tucson, AZ	300	600	1,400	0	0	0	0	0	0	6	29	35
2	Raytheon Missile Systems - Tucson, AZ	300	600	1,400	0	0	0	0	0	0	6	29	35
3	Raytheon Missile Systems - Tucson, AZ	300	600	1,400	0	0	0	0	0	0	6	29	35

(†) 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 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** MAMRA0 / AMRAAM

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207163F

Line Item MDAP/MAIS Code: 185

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	10,254	262	168	271	-	271	178	288	410	255	782	12,868
Gross/Weapon System Cost (<i>\$ in Millions</i>)	10,170.800	306.023	214.002	320.056	-	320.056	231.473	330.822	462.367	306.098	1,040.926	13,382.567
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	10,170.800	306.023	214.002	320.056	-	320.056	231.473	330.822	462.367	306.098	1,040.926	13,382.567
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	10,170.800	306.023	214.002	320.056	-	320.056	231.473	330.822	462.367	306.098	1,040.926	13,382.567
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	87.319	2.404	3.003	3.165	-	3.165	2.273	2.314	2.343	2.381	10.258	115.460
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.992	1.168	1.274	1.181	-	1.181	1.300	1.149	1.128	1.200	1.331	1.040

Description:

The Advanced Medium Range Air-to-Air Missile (AMRAAM) is a joint United States Air Force (USAF)/United States Navy (USN), Acquisition Category 1C program with USAF as lead service. AMRAAM is the premier all-weather, all-environment radar guided missile with improved capabilities against very low and high-altitude targets in an electronic attack environment. The current AMRAAM AIM-120D variant delivers improved performance via Global Positioning System (GPS) aided navigation; two way datalink capability for enhanced aircrew survivability and improved network compatibility; and incorporates new guidance software that improves kinematic performance and weapon effectiveness.

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

Differences in USAF and USN All Up Round (AUR) Unit Cost is the result of the variations in procurement of missile types by each service.

Funding for this exhibit contained in PE 0207163F

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** MAMRA0 / AMRAAM

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207163F

Line Item MDAP/MAIS Code: 185

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	AMRAAM	P-5a, P-21	A		10,254 / 10,170.800	262 / 306.023	168 / 214.002	271 / 320.056	- / -	271 / 320.056
P-40	Total Gross/Weapon System Cost				10,254 / 10,170.800	262 / 306.023	168 / 214.002	271 / 320.056	- / -	271 / 320.056

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

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

Justification:
 FY23 continues procurement and support of AMRAAM for the USAF and USN in Lot 37. USAF funds will procure 271 AMRAAM missiles in support of warfighter requirements. Missile configurations may vary based on warfighter needs, which include assets used for training and Weapon System Evaluation Program (WSEP).
 Funding provides for test and technical production support, procurement of training equipment and test equipment/test equipment upgrades to support the AMRAAM configurations. Additionally, funding is used to resolve production Diminishing Manufacturing Sources and Material Shortages, obsolescence issues, studies, bridge buys, life of type buys, supplier/parts replacement and qualification activities to preserve future production capabilities and capacities.
 The AMRAAM Form, Fit, Function, Refresh (F3R) program experienced a 13 month schedule slip due to hardware integration issues. Raytheon Missiles & Defense (RMD) has achieved a number of significant milestones and implemented a missed task burn down plan to mitigate impacts to the F3R program critical path schedule. Additionally, RMD has demonstrated improved forecast and backlog task completion while maintaining a three month schedule margin to meet the Joint Schedule Risk Assessment Full Configuration Audit date of Jan 2023. Although DoN has no FY 2022 funding to procure missiles in FY 2022 Lot 36, the production capacity is being fulfilled by USAF, DoN (FY 2021 funding), and FMS allied partners resulting in a procurement quantity forecast in excess of 700 missiles. In summary, the program is confident in RMD's ability to produce the FY 2023 budgeted quantity of 271 missiles.
 Note: Procurement quantities can change based on negotiated options/pricing bands and available funding, in accordance with Title 10, US Code Section 2308 BUY-TO-BUDGET ACQUISITION.

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Exhibit P-5, Cost Analysis: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: MAMRA0 / AMRAAM	Item Number / Title [DODIC]: AMRAAM

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	10,254	262	168	271	-	271
Gross/Weapon System Cost (\$ in Millions)	10,170.800	306.023	214.002	320.056	-	320.056
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	10,170.800	306.023	214.002	320.056	-	320.056
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	10,170.800	306.023	214.002	320.056	-	320.056

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

Initial Spares (\$ in Millions)	87.319	2.404	3.003	3.165	-	3.165
Gross/Weapon System Unit Cost (\$ in Millions)	0.992	1.168	1.274	1.181	-	1.181

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
AIM-120 Missile All Up Round (AUR) ^(†)	1.040	2,069	2,152.221	0.938	222	208.138	0.960	168	161.230	0.926	271	250.935	-	-	-	0.926	271	250.935
AIM-120 Missile Captive Air Training Missile (CATM) ^(†)	0.635	444	281.823	0.457	40	18.284	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Warranty	-	-	70.328	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Diminishing Manufacturing Sources/Material Shortages (DMS/MS)	-	-	544.263	-	-	42.449	-	-	11.582	-	-	32.587	-	-	-	-	-	32.587
Tooling and Test Equipment	-	-	141.270	-	-	1.157	-	-	9.704	-	-	2.454	-	-	-	-	-	2.454
Engineering Change Orders	-	-	2.755	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Total Prior Years Costs	0.846	7,741	6,545.560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	9,738.220	-	-	270.028	-	-	182.516	-	-	285.976	-	-	-	-	-	285.976
Subtotal: Hardware - Hardware End Item Cost	-	-	9,738.220	-	-	270.028	-	-	182.516	-	-	285.976	-	-	-	-	-	285.976
Ancillary Equipment - AncillaryEquipment End Item Cost																		
Recurring Cost																		
Containers and Cables	-	-	11.805	-	-	1.250	-	-	1.250	-	-	1.275	-	-	-	-	-	1.275

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Exhibit P-5, Cost Analysis: PB 2023 Air Force												Date: April 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2						P-1 Line Item Number / Title: MAMRA0 / AMRAAM						Item Number / Title [DODIC]: AMRAAM					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Recurring Cost</i>	-	-	11.805	-	-	1.250	-	-	1.250	-	-	1.275	-	-	-	-	-	1.275
<i>Subtotal: Ancillary Equipment - Ancillary Equipment End Item Cost</i>	-	-	11.805	-	-	1.250	-	-	1.250	-	-	1.275	-	-	-	-	-	1.275
Support - Support End Item Cost																		
Production Test/Support	-	-	137.299	-	-	4.273	-	-	2.697	-	-	2.864	-	-	-	-	-	2.864
Program Support Costs (PSC) Other Government Costs	-	-	32.163	-	-	7.899	-	-	2.517	-	-	2.567	-	-	-	-	-	2.567
PSC Contractor Services	-	-	25.253	-	-	3.224	-	-	2.751	-	-	2.806	-	-	-	-	-	2.806
Training Equipment	-	-	226.060	-	-	19.349	-	-	22.271	-	-	24.568	-	-	-	-	-	24.568
<i>Subtotal: Support - Support End Item Cost</i>	-	-	420.775	-	-	34.745	-	-	30.236	-	-	32.805	-	-	-	-	-	32.805
Gross/Weapon System Cost	0.992	10,254	10,170.800	1.168	262	306.023	1.274	168	214.002	1.181	271	320.056	-	-	-	1.181	271	320.056

Remarks:

- 1) Lot 35 Contract was awarded in July 2021. Under Buy to Budget Authority, the Air Force procured 262 missiles.
- 2) Unit cost quantity dependent. Changes in total quantity directly impacts unit price for USAF, USN, and Foreign Military Sales. The Total Prior Years Weapon System Cost Element, Prior Years column entries are composite numbers for all AIM-120 variants.
- 3) The Production/Test Support cost element includes costs such as engineering studies, technical support, network security, and modification of special test assets.
- 4) The Training Equipment cost element includes telemetry instrumentation units to support Weapon System Evaluation Program (WSEP) and modification of telemetry components to maintain compatibility with F-22, F-35 and test range infrastructure.
- 5) CATMS: Total Procurement objective includes CATMS & AUR. Quantity subject to changes based on warfighter requirements.

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: MAMRA0 / AMRAAM	Item Number / Title [DODIC]: AMRAAM
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
AIM-120 Missile All Up Round (AUR) ^(†)		2019	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Dec 2019	Oct 2021	187	1.023	Y		Nov 2017
AIM-120 Missile All Up Round (AUR) ^(†)		2020	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2021	Jul 2022	220	0.984	Y		Sep 2018
AIM-120 Missile All Up Round (AUR) ^(†)		2021	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Jul 2021	Jul 2023	222	0.938	Y		Sep 2018
AIM-120 Missile All Up Round (AUR) ^(†)		2022	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Jul 2022	Jul 2024	168	0.960	Y		Sep 2018
AIM-120 Missile All Up Round (AUR) ^(†)		2023	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Apr 2023	Apr 2025	271	0.926	Y		Sep 2021
AIM-120 Missile Captive Air Training Missile (CATM) ^(†)		2021	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Jul 2021	Jul 2023	40	0.457	Y		Sep 2018

^(†) indicates the presence of a P-21

Remarks:
Unit Cost is quantity dependent; changes in total quantity directly impact unit price for USAF, USN, and Foreign Military Sales.

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: MAMRA0 / AMRAAM	Item Number / Title [DODIC]: AMRAAM
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2020													Fiscal Year 2021													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
AIM-120 Missile All Up Round (AUR)																																	
Prior Years Deliveries: 1662																																	
1	2019	AF		187	0	187				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	187
1	2019	FMS (+)		434	0	434				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	434	
1	2019	NAVY (+)		165	0	165				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	165	
1	2019	Total		786	0	786				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	786	
1	2020	AF		220	0	220																										220	
1	2020	FMS (+)		300	0	300																										300	
1	2020	NAVY (+)		187	0	187																										187	
1	2020	Total		707	0	707																										707	
1	2021	AF		222	0	222																										222	
1	2021	FMS (+)		164	0	164																										164	
1	2021	NAVY (+)		122	0	122																										122	
1	2021	Total		508	0	508																										508	
1	2022	AF		168	0	168																										168	
1	2022	FMS (+)		522	0	522																										522	
1	2022	Total		690	0	690																										690	
1	2023	AF		271	0	271																										271	
1	2023	FMS (+)		364	0	364																										364	
1	2023	NAVY (+)		337	0	337																										337	
1	2023	Total		972	0	972																										972	

AIM-120 Missile Captive Air Training Missile (CATM)																																	
Prior Years Deliveries: 444																																	
2	2021	AF		40	0	40																											40

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: MAMRA0 / AMRAAM	Item Number / Title [DODIC]: AMRAAM
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2022													Fiscal Year 2023													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
AIM-120 Missile All Up Round (AUR)																																	
Prior Years Deliveries: 1662																																	
1	2019	AF		187	0	187	47	-	-	47	-	-	47	-	-	46													0				
1	2019	FMS (+)		434	0	434	109	-	-	109	-	-	108	-	-	108													0				
1	2019	NAVY (+)		165	0	165	42	-	-	41	-	-	41	-	-	41													0				
1	2019	Total		786	0	786	198	-	-	197	-	-	196	-	-	195	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2020	AF		220	0	220	-	-	-	-	-	-	-	-	55	-	-	55	-	-	55	-	-	55					0				
1	2020	FMS (+)		300	0	300	-	-	-	-	-	-	-	-	75	-	-	75	-	-	75	-	-	75					0				
1	2020	NAVY (+)		187	0	187	-	-	-	-	-	-	-	-	47	-	-	47	-	-	47	-	-	46					0				
1	2020	Total		707	0	707	-	-	-	-	-	-	-	-	177	-	-	177	-	-	177	-	-	176	-	-	-	-	0				
1	2021	AF		222	0	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-	-	166				
1	2021	FMS (+)		164	0	164	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	-	-	123				
1	2021	NAVY (+)		122	0	122	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	91				
1	2021	Total		508	0	508	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128	-	-	380				
1	2022	AF		168	0	168									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	168				
1	2022	FMS (+)		522	0	522									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	522				
1	2022	Total		690	0	690									-	-	-	-	-	-	-	-	-	-	-	-	-	-	690				
1	2023	AF		271	0	271																							271				
1	2023	FMS (+)		364	0	364																							364				
1	2023	NAVY (+)		337	0	337																							337				
1	2023	Total		972	0	972																							972				

AIM-120 Missile Captive Air Training Missile (CATM)

Prior Years Deliveries: 444																														
2	2021	AF		40	0	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	30
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: MAMRA0 / AMRAAM	Item Number / Title [DODIC]: AMRAAM
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024														Fiscal Year 2025														BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024														Calendar Year 2025														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

AIM-120 Missile All Up Round (AUR)

Prior Years Deliveries: 1662																																
1	2019	AF	187	187	0																											0
1	2019	FMS (+)	434	434	0																											0
1	2019	NAVY (+)	165	165	0																											0
1	2019	Total	786	786	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2020	AF	220	220	0																											0
1	2020	FMS (+)	300	300	0																											0
1	2020	NAVY (+)	187	187	0																											0
1	2020	Total	707	707	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2021	AF	222	56	166	56	-	-	55	-	-	55																				0
1	2021	FMS (+)	164	41	123	41	-	-	41	-	-	41																				0
1	2021	NAVY (+)	122	31	91	31	-	-	30	-	-	30																				0
1	2021	Total	508	128	380	128	-	-	126	-	-	126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2022	AF	168	0	168	-	-	-	-	-	-	-	-	-	42	-	-	42	-	-	42	-	-	42								0
1	2022	FMS (+)	522	0	522	-	-	-	-	-	-	-	-	-	131	-	-	131	-	-	130	-	-	130								0
1	2022	Total	690	0	690	-	-	-	-	-	-	-	-	-	173	-	-	173	-	-	172	-	-	172	-	-	-	-	-	-	0	
1	2023	AF	271	0	271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	-	-	68	-	-			135	
1	2023	FMS (+)	364	0	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91	-	-	91	-	-			182		
1	2023	NAVY (+)	337	0	337	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85	-	-	85	-	-			167		
1	2023	Total	972	0	972	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	244	-	-	244	-	-	-	-	484		

AIM-120 Missile Captive Air Training Missile (CATM)

Prior Years Deliveries: 444																																
2	2021	AF	40	10	30	10	-	-	10	-	-	10																				0
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: MAMRA0 / AMRAAM	Item Number / Title [DODIC]: AMRAAM
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2026														Fiscal Year 2027														BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026														Calendar Year 2027														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

AIM-120 Missile All Up Round (AUR)																																
Prior Years Deliveries: 1662																																
1	2019	AF	187	187	0																											0
1	2019	FMS (+)	434	434	0																											0
1	2019	NAVY (+)	165	165	0																											0
1	2019	Total	786	786	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2020	AF	220	220	0																											0
1	2020	FMS (+)	300	300	0																											0
1	2020	NAVY (+)	187	187	0																											0
1	2020	Total	707	707	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2021	AF	222	222	0																											0
1	2021	FMS (+)	164	164	0																											0
1	2021	NAVY (+)	122	122	0																											0
1	2021	Total	508	508	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2022	AF	168	168	0																											0
1	2022	FMS (+)	522	522	0																											0
1	2022	Total	690	690	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2023	AF	271	136	135	68			67																							0
1	2023	FMS (+)	364	182	182	91			91																							0
1	2023	NAVY (+)	337	170	167	84			83																							0
1	2023	Total	972	488	484	243	-	-	241	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	

AIM-120 Missile Captive Air Training Missile (CATM)																																
Prior Years Deliveries: 444																																
2	2021	AF	40	40	0																											0
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Air Force	Date: April 2021
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: MAMRA0 / AMRAAM	Item Number / Title [DODIC]: AMRAAM
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Raytheon Missile Systems - Tucson, AZ	400	400	1,200	0	0	0	0	0	0	7	24	31
2	Raytheon Missile Systems - Tucson, AZ	400	400	1,200	0	0	0	0	0	0	10	24	34

Remarks:
Due to Service specific guidance, differences exist between USAF and DoN Initial and Reorder Procurement Leadtime.

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

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** PRDTA2 / Predator Hellfire Missile

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0305219F

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	4,517	1,176	-	-	-	-	-	-	-	-	5,693
Gross/Weapon System Cost (<i>\$ in Millions</i>)	299.631	183.549	103.684	1.040	-	1.040	1.043	0.000	0.000	0.000	-	588.947
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	299.631	183.549	103.684	1.040	-	1.040	1.043	0.000	0.000	0.000	-	588.947
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	299.631	183.549	103.684	1.040	-	1.040	1.043	0.000	0.000	0.000	-	588.947

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	0.036	0.078	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	0.041	0.088	-	-	-	-	-	-	-	-	0.103

Description:

FY21 funding totals include 143.420M appropriated for Overseas Contingency Operations.

FY22 funding totals include 56.833M requested for Over-The-Horizon Requirements.

The Army is the Lead Service for the HELLFIRE Missile program with Air Force missiles being procured through the Army's Redstone Arsenal. HELLFIRE missiles (all variants) provide precision-kill capability and has become a key weapon in overseas operations. Laser HELLFIRE uses semi-active laser terminal guidance. The latest variant provides for point target precision strike and is effective against countermeasures. The HELLFIRE missiles are used by the MQ-9 Reaper aircraft.

HELLFIRE procurement funding supports the entire HELLFIRE system to include resolution of obsolescence, end-of-life buys, safety, insensitive munitions, reliability, weapon integration activities, test sets, engineering changes, modifications, facilitation, production ramp-up activities and production issues. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. HELLFIRE unit cost may vary based on procurement quantities of Lead Service, other Services and/or Foreign Military Sales (FMS) for HELLFIRE. Prior to FY08, HELLFIRE missiles were procured under the Predator PE 0305219F.

Note: These funds may also procure inventoried items which may not be procured on an annual basis and could be required on an emerging basis. Variations to cover critical shortfalls to inventory objectives as well as actual and planned expenditures will be addressed during execution year. Procurement quantities can change based on negotiated options/pricing bands and available funding, in accordance with Title 10, U.S Code Section 2308 BUY-TO-BUDGET ACQUISITION.

Funding for this exhibit contained in PE 0201109F.

Justification:

FY23 budget request will convert approximately 89 older R-9E missiles to Q-6 missiles to meet training requirements for HELLFIRE. Quantities are based on current ROM received from Redstone Test Center.

Note: Budgeted Quantities should be 2270 for FY21.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** SDB000 / Small Diameter Bomb

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207327F **Other Related Program Elements:** 0207327F

Line Item MDAP/MAIS Code: 439

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	40,866	1,958	748	356	-	356	853	1,102	1,217	1,217	-	48,317
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,017.351	53.613	72.859	46.475	-	46.475	80.239	81.048	80.662	81.967	0.000	2,514.214
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,017.351	53.613	72.859	46.475	-	46.475	80.239	81.048	80.662	81.967	0.000	2,514.214
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,017.351	53.613	72.859	46.475	-	46.475	80.239	81.048	80.662	81.967	0.000	2,514.214

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	0.046	0.051	0.045	0.079	-	0.079	0.074	0.070	0.064	0.064	-	0.049
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.049	0.027	0.097	0.131	-	0.131	0.094	0.074	0.066	0.067	-	0.052

Description:

FY2021 funding totals include \$50.352M appropriated for Overseas Contingency Operations (OCO).
 FY2022 funding totals include \$12.285M requested for Over-The-Horizon.
 FY2023 funding request was reduced by \$0.136M to account for the availability of prior year execution balances.

GBU-39/B: Small Diameter Bomb Increment I (SDB I) is an Air Force ACAT II program providing increased kills per sortie on current and future aircraft platforms. SDB I addresses the following specific warfighter requirements: multiple kills per pass; multiple ordnance carriage; adverse weather; precision munitions capability; capability against fixed and stationary targets; reduced munitions footprint; increased weapons effectiveness; minimized potential for collateral damage; reduced susceptibility of munitions to countermeasures; and standoff or Close Air Support (CAS) operational capability. Threshold aircraft is the F-15E. Objective aircraft include: F-22A, F-16C/D Block 30/40/50, F-35A, B-1, A-10, B-52, B-21, MQ-9, and AC-130W/J. Integrated platforms include: F-15E, F-22A, AC-130W/J, F-16C/D Block 30/40/50, and F-35A. SDB I completed IOT&E in Jun 2006 and commenced Full Rate Production (FRP) in Dec 2006.

GBU-39A/B: Small Diameter Bomb I Focused Lethality Munition (FLM) is a low collateral damage variant of SDB I. FLM has a carbon fiber warhead case which disintegrates upon fill detonation, minimizing fragmentation effects to personnel and property.

GBU-39B/B: Laser SDB is a laser variant of the baseline SDB I. Laser SDB is a 250-pound class, air-launched weapon with deployable wings to achieve standoff range, has a laser seeker to self-target and a GPS-only mode, has a Height-Of-Burst (HOB) fuze to provide selectable weapons effects, and has a penetration warhead.

SDB I weapons and weapon containers are procured together as a system. Individual containers can be procured separately as requirements dictate. SDB I procurement supports current combat operations and replenishment of SDB I weapons and its variants used in these operations. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. For example the integration of a qualified Strategic Anti-Jam Beam-forming Receiver (SABR-Y) and M-Code capable GPS receivers. Funding may also be used to resolve performance deficiencies identified in the system. This will be accomplished through studies, bridge buys, life of type buys, supplier/parts replacement, and qualification (including flight/ground test activities) to preserve future production capabilities and capacities.

GBU-53/B: Small Diameter Bomb Increment II (SDB II) quantities and obligation authority were included in SDB000 for FY2018 and earlier. Reference BP20 SDB002 for SDB II FY19 and out.

Funding for this exhibit is contained in PE 0207330F. Funding was contained in PE 0207327F for FY22 and prior.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** SDB000 / Small Diameter Bomb

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207327F **Other Related Program Elements:** 0207327F

Line Item MDAP/MAIS Code: 439

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>
P-5	Small Diameter Bomb	P-5a, P-21	B		40,866 / 2,017.351	1,958 / 53.613	748 / 72.859	356 / 46.475	- / -	356 / 46.475
P-40	Total Gross/Weapon System Cost				40,866 / 2,017.351	1,958 / 53.613	748 / 72.859	356 / 46.475	- / -	356 / 46.475

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

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

Justification:
 FY2023 budget request will procure 356 weapons.

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

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Exhibit P-5, Cost Analysis: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb	Item Number / Title [DODIC]: Small Diameter Bomb
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)	40,866	1,958	748	356	-	356
Gross/Weapon System Cost (\$ in Millions)	2,017.351	53.613	72.859	46.475	-	46.475
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,017.351	53.613	72.859	46.475	-	46.475
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,017.351	53.613	72.859	46.475	-	46.475

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	0.049	0.027	0.097	0.131	-	0.131

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Flyaway End Item Cost																		
Recurring Cost																		
SDB Increment II All Up Round Weapon	0.152	1,276	193.938	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weapon Containers	-	-	3.918	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDB Increment I ^(†)	0.043	36,804	1,587.221	0.051	525	26.568	0.045	748	33.329	0.079	356	28.124	-	-	-	0.079	356	28.124
Focused Lethality Munition	0.088	1,100	96.541	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SDB Increment II Test Vehicle	-	-	9.154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,890.772</i>	-	-	<i>26.568</i>	-	-	<i>33.329</i>	-	-	<i>28.124</i>	-	-	-	-	-	<i>28.124</i>
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	<i>1,890.772</i>	-	-	<i>26.568</i>	-	-	<i>33.329</i>	-	-	<i>28.124</i>	-	-	-	-	-	<i>28.124</i>
Support - Support End Item Cost																		
Training Equipment	-	-	2.920	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operational Flight Program Updates & Test	-	-	21.250	-	-	0.780	-	-	1.200	-	-	3.175	-	-	-	-	-	3.175
Logistics Support	-	-	0.594	-	-	0.060	-	-	0.060	-	-	0.060	-	-	-	-	-	0.060
Production Testing	-	-	32.878	-	-	21.648	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
PSC Contractor Services	-	-	9.830	-	-	3.093	-	-	0.000	-	-	3.300	-	-	-	-	-	3.300
PSC Other Government Costs	-	-	3.283	-	-	0.051	-	-	0.200	-	-	0.300	-	-	-	-	-	0.300
Obsolescence Contracts	-	-	36.550	-	-	0.000	-	-	9.070	-	-	2.000	-	-	-	-	-	2.000
Integration	-	-	19.274	-	-	1.413	-	-	29.000	-	-	9.516	-	-	-	-	-	9.516

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Exhibit P-5, Cost Analysis: PB 2023 Air Force												Date: April 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2						P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb						Item Number / Title [DODIC]: Small Diameter Bomb					
ID Code (A=Service Ready, B=Not Service Ready) : B												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Support - Support End Item Cost</i>	-	-	126.579	-	-	27.045	-	-	39.530	-	-	18.351	-	-	-	-	-	18.351
Gross/Weapon System Cost	0.049	40,866	2,017.351	0.027	1,958	53.613	0.097	748	72.859	0.131	356	46.475	-	-	-	0.131	356	46.475

Remarks:

- Operational Flight Program and Updates & Test: FY23 increase due to OFP block upgrade.
- Production Testing: FY23 decrease due to expected completion of BRU ejector effort.
- Obsolescence Contracts: FY23 decrease due to expected completion of SMC-2.
- Integration: FY23 decrease due to expected ramp down and completion of M-Code; additional support for, but not limited to, integration efforts to support Block 18.1 OFP and SMC-2.

PSC Contractor Services: Engineering, Professional, and Administrative Support Services (EPASS) contract support.

PSC Other Government Costs: Travel, Government Purchase Card (GPC) and Central Supporter.

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

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Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb	Item Number / Title [DODIC]: Small Diameter Bomb
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
SDB Increment I ^(†)		2019	Boeing / St Louis MO	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Sep 2020	Mar 2021	5,069	0.036	Y		Jul 2018
SDB Increment I ^(†)		2020	Boeing / St Louis MO	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Nov 2020	May 2021	6,878	0.031	Y		Jan 2020
SDB Increment I ^(†)		2021	Boeing / St Louis MO	SS / FPIF	AFLCMC Hill AFB	Nov 2021	Nov 2023	525	0.051	Y		Jan 2021
SDB Increment I ^(†)		2022	Boeing / St Louis MO	SS / FPIF	AFLCMC Hill AFB	Nov 2022	Nov 2024	748	0.045	Y		Mar 2021
SDB Increment I ^(†)		2023	Boeing / St Louis MO	SS / FPIF	AFLCMC Hill AFB	Jul 2023	Jul 2025	356	0.079	Y		Mar 2021

^(†) indicates the presence of a P-21

Remarks:

- SDB I FY2021 funding obligated on Lot 17 contract Nov 2021. Funds include \$50.352M OCO appropriated for procurement of SDB I weapons. Quantities for FY2021 were 525 with an average unit cost of \$0.047M.
- SDB I FY2022 funding to obligate on Lot 18 contract in 1QFY2023. Unit cost increase in FY2023 due to procurement of SDB I weapons integrated with SABR-Y.
- SDB I FY2023 funding to obligate on Lot 19 contract in 4QFY2023.
- RFP issued Mar 2021 to add pricing for new variants. RFPs are not issued for each lot.
- May 2022 issue RFP for follow on 5 year IDIQ with annual ordering windows.

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb	Item Number / Title [DODIC]: Small Diameter Bomb
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020												Fiscal Year 2021												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020												Calendar Year 2021												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
SDB Increment I																															
Prior Years Deliveries: 24857																															
1	2019	AF		5,069	0	5,069																									
1	2019	FMS (†)		1,420	0	1,420																									
1	2019	Total		6,489	0	6,489																									
1	2020	AF		6,878	0	6,878																									
1	2020	FMS (†)		563	0	563																									
1	2020	Total		7,441	0	7,441																									
1	2021	AF		525	0	525																									
1	2022	AF		748	0	748																									
1	2023	AF		356	0	356																									

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb	Item Number / Title [DODIC]: Small Diameter Bomb
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2022													Fiscal Year 2023													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022													Calendar Year 2023													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
SDB Increment I																																	
Prior Years Deliveries: 24857																																	
1	2019	AF		5,069	2,438	2,631	-	-	-	-	-	-	-	-	-	969	889	773												0			
1	2019	FMS (†)		1,420	948	472	-	-	-	-	-	-	-	-	-	157	157	158												0			
1	2019	Total		6,489	3,386	3,103	-	-	-	-	-	-	-	-	-	1,126	1,046	931	-	-	-	-	-	-	-	-	-	-	0				
1	2020	AF		6,878	150	6,728	-	561	561	561	561	561	561	561	560	560	560	560	-	-										0			
1	2020	FMS (†)		563	0	563	-	-	-	46	47	47	47	47	47	47	47	47	47	47										0			
1	2020	Total		7,441	150	7,291	-	561	561	607	608	608	608	608	608	607	607	607	607	47	47	-	-	-	-	-	-	-	0				
1	2021	AF		525	0	525		A -	-	-	-	-	-	-	-	-	-	-	-	-									525				
1	2022	AF		748	0	748														A -	-	-	-	-	-	-	-	-	748				
1	2023	AF		356	0	356																					A -	-	-	356			
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb	Item Number / Title [DODIC]: Small Diameter Bomb
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024												Fiscal Year 2025												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024												Calendar Year 2025												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
SDB Increment I																															
Prior Years Deliveries: 24857																															
1	2019	AF		5,069	5,069	0																							0		
1	2019	FMS (†)		1,420	1,420	0																							0		
1	2019	Total		6,489	6,489	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
1	2020	AF		6,878	6,878	0																							0		
1	2020	FMS (†)		563	563	0																							0		
1	2020	Total		7,441	7,441	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
1	2021	AF		525	0	525	-	44	44	44	44	44	44	44	44	44	43	43	43										0		
1	2022	AF		748	0	748	-	-	-	-	-	-	-	-	-	-	-	-	63	63	63	63	62	62	62	62	62	62	62		
1	2023	AF		356	0	356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	30	30	266		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb	Item Number / Title [DODIC]: Small Diameter Bomb
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2026												Fiscal Year 2027												BALANCE					
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2025	BAL DUE AS OF 1 OCT	Calendar Year 2026												Calendar Year 2027																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P				
SDB Increment I																																			
Prior Years Deliveries: 24857																																			
1	2019	AF		5,069	5,069	0																													0
1	2019	FMS (†)		1,420	1,420	0																													0
1	2019	Total		6,489	6,489	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2020	AF		6,878	6,878	0																												0	
1	2020	FMS (†)		563	563	0																												0	
1	2020	Total		7,441	7,441	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	
1	2021	AF		525	525	0																												0	
1	2022	AF		748	686	62	62																											0	
1	2023	AF		356	90	266	30	30	30	30	30	29	29	29	29																			0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2023 Air Force	Date: April 2021
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb	Item Number / Title [DODIC]: Small Diameter Bomb
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Boeing - St Louis MO	1,000	10,000	10,000	0	0	0	0	0	0	10	24	34

Remarks:

FY2019 deliveries delayed Sep 2021-Jun 2022 due to GUM (Ground Unit Mounting) ring non-conformance issue

FY2020 deliveries in May-August 2021 are a result of FY2020 funding being obligated on the Lot 15 contract. Remaining FY2020 deliveries are on the Lot 16 contract.

FY2023 deliveries are below minimum sustainment rate (MSR); however, with FMS and SDB I variants the program will be at or above MSR.

(‡) 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.

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

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** SDB002 / SMALL DIAMETER BOMB II

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207327F **Other Related Program Elements:** 0207327F

Line Item MDAP/MAIS Code: 439

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	1,257	674	976	761	-	761	770	801	784	790	3,833	10,646
Gross/Weapon System Cost (<i>\$ in Millions</i>)	294.050	185.096	275.934	279.006	-	279.006	263.124	228.439	207.971	211.333	1,036.236	2,981.189
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	294.050	185.096	275.934	279.006	-	279.006	263.124	228.439	207.971	211.333	1,036.236	2,981.189
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	294.050	185.096	275.934	279.006	-	279.006	263.124	228.439	207.971	211.333	1,036.236	2,981.189

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	1.144	-	1.144	1.147	1.147	-	-	-	3.438
Flyaway Unit Cost (<i>\$ in Millions</i>)	0.179	0.200	0.208	0.210	-	0.210	0.210	0.210	0.210	0.210	0.214	0.207
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.234	0.275	0.283	0.367	-	0.367	0.342	0.285	0.265	0.268	0.270	0.280

Description:

GBU-53/B: Small Diameter Bomb Increment II (SDB II) StormBreaker is a joint interest United States Air Force (USAF) and Department of Navy (DoN) ACAT IC program, with the USAF as the lead service. SDB II addresses the following war-fighter requirements: attack moving and stationary targets, adverse weather operations, multiple kills per pass, multiple ordinance carriage, precision munitions capability, reduced munitions footprint, increased weapons effectiveness, minimized potential for collateral damage, reduced susceptibility of munitions to countermeasures, and provides a network-enabled weapon capability via Link-16 and Ultra High Frequency (UHF) weapon data link. The threshold aircraft for the USAF is the F-15E, and the threshold aircraft for the DoN are the F-35B and F-35C. Objective aircraft include the F-22, F-16, F-35A, B-2, A-10, MQ-9, B-1, B-52, AC-130 and the F/A-18E/F. SDB II is compatible with the Bomb Rack Unit-61 (BRU-61) miniature munitions carriage, Bomb Rack Unit-55 (BRU-55), Type II carriage systems, the CNU-660/E carriage system, the Common Munitions Built In Test (BIT)/Reprogramming Equipment (CMBRE), and the Joint Mission Planning System (JMPS). SDB II will develop and field a single weapon storage container (USAF) and a dual weapon storage container (DoN). SDB II is a key component of the Air Force Global Strike Task Force Concept of Operations (CONOPs).

SDB II completed a competitive Risk Reduction in October 2009 and entered Milestone B Engineering and Manufacturing Development (EMD) in August 2010. A Fixed Price Incentive - Firm Target (FPIF) EMD contract with five options for annual (FY 2015-FY 2019) Low Rate Initial Production (LRIP) lots was awarded in August 2010. SDB II received Milestone C approval to enter LRIP in June 2015 and completed an Acquisition Program Baseline (APB) update. Contract options for LRIP Lots 1-5 have been exercised. Initial Operational Test and Evaluation (IOT&E) started June 2018 and completed May 2019. SDB II was fielded for F-15E in September 2020.

On 10 Jan 2022, SDB II received direction to increase the program 9,610 AURs from 17,000 (12,000 USAF & 5,000 DoN) to 26,610 AURs (21,610 USAF & 5,000 DoN). Current seeker section life-of-type buy (LTB) inventories do not support production past the original 17,000 IO. A multi-year system refresh effort is required to replace, redesign, and integrate a majority of the seeker components and associated electronics. The new design will require ground and flight qualification, updated test equipment, updated computer integrated labs and production readiness activities. Additionally, the F-35 JPO delayed SDB II weapon integration on the F-35B/C from Jan 2023 until Jan 2025 due primarily to F-35 software delays. Based on the new IO, the updated APUC exceeds the current APB by 21.7 percent, resulting in a breach of the Nunn-McCurdy significant cost threshold. In accordance with the Unit Cost Reporting (UCR) statute, the Secretary of the Air Force (SecAF) notified Congress of the breach on 4 Mar 22. The SDB II program is currently in coordination to re-baseline and update their APB to incorporate the new IO and the new F-35B/C integration schedule.

Total planned SDB II procurement is now 26,610 weapons (21,610 USAF & 5,000 DoN). SDB II total procurement costs in this document do not reflect the quantity increase as the APB update is still in coordination. SDB II total procurement costs in this document only include USAF weapons, weapon containers, trainers, reliability captive/test vehicles, tactical to guided test vehicle conversions for Air Combat Command's Weapon System Evaluation Program (WSEP), and SDB II product support. Funds may also 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.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical		P-1 Line Item Number / Title: SDB002 / SMALL DIAMETER BOMB II
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207327F	Other Related Program Elements: 0207327F
Line Item MDAP/MAIS Code: 439		

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. These types of issues may be addressed through bridge buys, life-of-type buys, supplier/parts replacement, and re-qualification.

Reference BP20 SDB000 for SDB II FY 2018 and prior years. SDB II total procurement costs in this document only include 10,724 USAF weapons, the remaining 1,276 USAF weapons were procured in BP20 SDB000.

Funding for this exhibit contained in PE 0207327F.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** SDB002 / SMALL DIAMETER BOMB II

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207327F **Other Related Program Elements:** 0207327F

Line Item MDAP/MAIS Code: 439

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>
P-5	SMALL DIAMETER BOMB II	P-5a, P-21	B		1,257 / 294.050	674 / 185.096	976 / 275.934	761 / 279.006	- / -	761 / 279.006
P-40	Total Gross/Weapon System Cost				1,257 / 294.050	674 / 185.096	976 / 275.934	761 / 279.006	- / -	761 / 279.006

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

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

Justification:
 The FY 2023 budget request includes funding for SDB II weapons, weapon containers, test equipment, training equipment required for weapon handling and maintenance, software maintenance, tactical to guided test vehicle conversions for WSEP, test assets and support for reliability testing, product support, integration and testing of changes to the product baseline to meet Congressional, National Agency or Defense Department mandates, and required DMSMS / cost reduction Non-Recurring Engineering (NRE), integration and testing. Training equipment includes Practical Explosive Ordinance Disposal System Trainers (PEST), Weapon Load Crew Trainers (WLCT) and Conventional Maintenance Munitions Trainers (CMMT). FY 2023 funding supports the sole source Lot 9 production contract. The Lot 9 contract is inclusive of both USAF and DoN production quantities. SDB II FY 2023 quantity for the USAF is 761 weapons.

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

Reference BP20 SDB000 for SDB II FY 2018 and prior years. SDB II total procurement costs in this document only include 10,724 USAF weapons, the remaining 1,276 USAF weapons were procured in BP20 SDB000.

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Exhibit P-5, Cost Analysis: PB 2023 Air Force					Date: April 2021					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2			P-1 Line Item Number / Title: SDB002 / SMALL DIAMETER BOMB II					Item Number / Title [DODIC]: SMALL DIAMETER BOMB II		
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:					
Resource Summary			Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total		
Procurement Quantity (Units in Each)			1,257	674	976	761	-	761		
Gross/Weapon System Cost (\$ in Millions)			294.050	185.096	275.934	279.006	-	279.006		
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-		
Net Procurement (P-1) (\$ in Millions)			294.050	185.096	275.934	279.006	-	279.006		
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-		
Total Obligation Authority (\$ in Millions)			294.050	185.096	275.934	279.006	-	279.006		
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>										
Initial Spares (\$ in Millions)			-	-	-	1.144	-	1.144		
Gross/Weapon System Unit Cost (\$ in Millions)			0.234	0.275	0.283	0.367	-	0.367		

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Small Diameter Bomb II Cost																		
Recurring Cost																		
SDB Increment II All Up Round Weapon ^(†)	0.170	1,257	213.667	0.195	674	131.211	0.200	976	195.200	0.200	761	152.200	-	-	-	0.200	761	152.200
Weapon Containers	-	-	4.304	-	-	3.653	-	-	5.290	-	-	4.125	-	-	-	-	-	4.125
Test Vehicle	-	-	7.432	-	-	0.000	-	-	4.041	-	-	3.122	-	-	-	-	-	3.122
<i>Subtotal: Recurring Cost</i>	-	-	225.403	-	-	134.864	-	-	204.531	-	-	159.447	-	-	-	-	-	159.447
<i>Subtotal: Flyaway - Small Diameter Bomb II Cost</i>	-	-	225.403	-	-	134.864	-	-	204.531	-	-	159.447	-	-	-	-	-	159.447
Support - Small Diameter Bomb II Cost																		
Training Equipment	-	-	2.015	-	-	1.675	-	-	1.680	-	-	1.685	-	-	-	-	-	1.685
Operational Flight Program Updates & Test	-	-	10.762	-	-	4.965	-	-	7.665	-	-	5.922	-	-	-	-	-	5.922
Logistics Support	-	-	1.335	-	-	0.902	-	-	0.931	-	-	0.923	-	-	-	-	-	0.923
Production Testing	-	-	16.567	-	-	5.133	-	-	16.933	-	-	20.098	-	-	-	-	-	20.098
PSC Contractor Services	-	-	6.696	-	-	5.079	-	-	4.236	-	-	4.272	-	-	-	-	-	4.272
PSC Other Government Costs	-	-	1.383	-	-	0.206	-	-	1.278	-	-	1.287	-	-	-	-	-	1.287
Product Support/Obsolescence	-	-	29.889	-	-	32.272	-	-	38.680	-	-	85.372	-	-	-	-	-	85.372
<i>Subtotal: Support - Small Diameter Bomb II Cost</i>	-	-	68.647	-	-	50.232	-	-	71.403	-	-	119.559	-	-	-	-	-	119.559
Gross/Weapon System Cost	0.234	1,257	294.050	0.275	674	185.096	0.283	976	275.934	0.367	761	279.006	-	-	-	0.367	761	279.006

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Exhibit P-5, Cost Analysis: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SDB002 / SMALL DIAMETER BOMB II	Item Number / Title [DODIC]: SMALL DIAMETER BOMB II
ID Code (A=Service Ready, B=Not Service Ready) : B		MDAP/MAIS Code:
<p>Remarks:</p> <ol style="list-style-type: none"> Operational Flight Program Updates & Test: Cost changes between FY 2021 to FY 2023 are attributed to Operational Flight Program updates occurring every other year. Recurring annual costs are associated with routine software maintenance support and testing activities. Production Testing: Cost increase from FY 2021 to FY 2022 is due to production qualification of the new weapon datalink, required to meet NSA-mandated Link-16 Cryptographic Modernization. Cost increase from FY 2022 to FY 2023 due to Congressionally mandated M-Code integration, testing and production qualification activities. PSC Other Government Costs: Travel, Government Purchase card (GPC), and Central Support Product Support/Obsolescence: DMSMS Activities to include bridge buys, life-of-type buys, supplier/parts replacement, re-qualification and Tech Refresh. Cost increase from FY 2022 to FY 2023 due to beginning full Tech Refresh obsolescence activities, which is required to replace and integrate the obsolete seeker components and associated electronics to maintain the SDB II production line. The new design will require ground and flight qualification, updated test equipment, updated computer integrated labs, and production readiness activities. Tech Refresh concept began in FY 2021 and full Tech Refresh obsolescence activities are planned to begin in FY 2023. <p>Reference BP20 SDB000 for SDB II FY 2018 and prior years. SDB II total procurement costs in this document only include 10,724 USAF weapons, the remaining 1,276 USAF weapons were procured in BP20 SDB000.</p> <p>(t) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SDB002 / SMALL DIAMETER BOMB II	Item Number / Title [DODIC]: SMALL DIAMETER BOMB II
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
SDB Increment II All Up Round Weapon ^(†)		2019	Raytheon / Tucson AZ	SS / FFP	AFLCMC/PK Eglin AFB, FL	Dec 2018	Jun 2021	510	0.120	N	Aug 2018	Oct 2009
SDB Increment II All Up Round Weapon ^(†)		2020	Raytheon / Tucson AZ	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Oct 2020	Mar 2022	747	0.199	N	Aug 2019	Oct 2018
SDB Increment II All Up Round Weapon ^(†)		2021	Raytheon / Tucson AZ	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Apr 2021	Mar 2023	674	0.195	N	Aug 2020	Oct 2019
SDB Increment II All Up Round Weapon ^(†)		2022	Raytheon / Tucson AZ	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Oct 2021	Mar 2024	976	0.200	N	Aug 2021	Oct 2020
SDB Increment II All Up Round Weapon ^(†)		2023	Raytheon / Tucson AZ	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Jan 2023	Mar 2025	761	0.200	N	Aug 2022	May 2021

^(†) indicates the presence of a P-21

Remarks:

1. SDB II Lots 1-5 are options on the current EMD contract with Raytheon Missile Systems, Tucson, AZ, which was competitively awarded in August 2010. SDB II specifications for Lot 1-5 are defined in the EMD contract.
2. SDB II Lots 4-5 (FY 2018-FY 2019) are Firm Fixed Price contracts.
3. SDB II Lot 6 (FY 2020) awarded as FPIF contract.
4. SDB II Lot 7 (FY 2021) awarded as FPIF contract.
5. SDB II Lot 8 (FY 2022) awarded as FPIF contract.
6. SDB II Lot 9 (FY 2023) to be negotiated as FPIF contract.
7. SDB II unit cost increased from Lot 5 (FY 2019) to Lot 6 (FY 2020) due to the end of the competitive business deal for Lots 1-5. Lot 6 was the first sole source lot and was negotiated using actual cost data available from prior lots.

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SDB002 / SMALL DIAMETER BOMB II	Item Number / Title [DODIC]: SMALL DIAMETER BOMB II
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2019													Fiscal Year 2020													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
SDB Increment II All Up Round Weapon																																	
1		2019	AF	510	0	510			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	510				
1		2019	NAVY (‡)	750	0	750			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	750				
1		2019	Total	1,260	0	1,260			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,260				
1		2020	AF	747	0	747																							747				
1		2020	NAVY (‡)	461	0	461																							461				
1		2020	FMS (‡)	20	0	20																							20				
1		2020	Total	1,228	0	1,228																							1,228				
1		2021	AF	674	0	674																							674				
1		2021	NAVY (‡)	226	0	226																							226				
1		2021	FMS (‡)	200	0	200																							200				
1		2021	Total	1,100	0	1,100																							1,100				
1		2022	AF	976	0	976																							976				
1		2022	NAVY (‡)	155	0	155																							155				
1		2022	Total	1,131	0	1,131																							1,131				
1		2023	AF	761	0	761																							761				
1		2023	NAVY (‡)	379	0	379																							379				
1		2023	Total	1,140	0	1,140																							1,140				
									O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SDB002 / SMALL DIAMETER BOMB II	Item Number / Title [DODIC]: SMALL DIAMETER BOMB II
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2021													Fiscal Year 2022													BALANCE		
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021													Calendar Year 2022													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
SDB Increment II All Up Round Weapon																																	
1	2019	AF		510	0	510	-	-	-	-	-	-	-	-	57	57	57	57	57	57	57	57	54								0		
1	2019	NAVY (+)		750	0	750	-	-	-	-	-	-	-	-	84	84	84	84	84	84	84	84	78								0		
1	2019	Total		1,260	0	1,260	-	-	-	-	-	-	-	-	141	141	141	141	141	141	141	141	132	-	-	-	-	-	-	0			
1	2020	AF		747	0	747	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	63	63	62	62	62	62	310			
1	2020	NAVY (+)		461	0	461	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39	39	39	39	39	38	38	190			
1	2020	FMS (+)		20	0	20	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	6			
1	2020	Total		1,228	0	1,228	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104	104	104	103	103	102	102	506			
1	2021	AF		674	0	674									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	674			
1	2021	NAVY (+)		226	0	226									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	226			
1	2021	FMS (+)		200	0	200									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200			
1	2021	Total		1,100	0	1,100									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,100			
1	2022	AF		976	0	976																	A -	-	-	-	-	-	-	976			
1	2022	NAVY (+)		155	0	155																	A -	-	-	-	-	-	-	155			
1	2022	Total		1,131	0	1,131									-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,131			
1	2023	AF		761	0	761																								761			
1	2023	NAVY (+)		379	0	379																								379			
1	2023	Total		1,140	0	1,140																								1,140			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SDB002 / SMALL DIAMETER BOMB II	Item Number / Title [DODIC]: SMALL DIAMETER BOMB II
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
SDB Increment II All Up Round Weapon																																	
1	2019	AF		510	510	0																							0				
1	2019	NAVY (‡)		750	750	0																							0				
1	2019	Total		1,260	1,260	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2020	AF		747	437	310	62	62	62	62	62																	0					
1	2020	NAVY (‡)		461	271	190	38	38	38	38	38																	0					
1	2020	FMS (‡)		20	14	6	2	1	1	1	1																	0					
1	2020	Total		1,228	722	506	102	101	101	101	101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
1	2021	AF		674	0	674	-	-	-	-	-	56	56	56	56	56	56	56	56	56	56	57	57					0					
1	2021	NAVY (‡)		226	0	226	-	-	-	-	-	19	19	19	19	19	19	19	19	19	19	18	18					0					
1	2021	FMS (‡)		200	0	200	-	-	-	-	-	17	17	17	17	17	17	17	17	16	16	16	16					0					
1	2021	Total		1,100	0	1,100	-	-	-	-	-	92	92	92	92	92	92	92	92	91	91	91	91	-	-	-	-	0					
1	2022	AF		976	0	976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	82	82	82	81	81	81	405			
1	2022	NAVY (‡)		155	0	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	13	13	13	13	13	64				
1	2022	Total		1,131	0	1,131	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95	95	95	95	94	94	94	469				
1	2023	AF		761	0	761						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	761					
1	2023	NAVY (‡)		379	0	379						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	379					
1	2023	Total		1,140	0	1,140						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,140					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SDB002 / SMALL DIAMETER BOMB II	Item Number / Title [DODIC]: SMALL DIAMETER BOMB II
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025													Fiscal Year 2026													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025													Calendar Year 2026													
							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			
SDB Increment II All Up Round Weapon																																	
1	2019	AF		510	510	0																							0				
1	2019	NAVY (‡)		750	750	0																							0				
1	2019	Total		1,260	1,260	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2020	AF		747	747	0																							0				
1	2020	NAVY (‡)		461	461	0																							0				
1	2020	FMS (‡)		20	20	0																							0				
1	2020	Total		1,228	1,228	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2021	AF		674	674	0																							0				
1	2021	NAVY (‡)		226	226	0																							0				
1	2021	FMS (‡)		200	200	0																							0				
1	2021	Total		1,100	1,100	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2022	AF		976	571	405	81	81	81	81	81																		0				
1	2022	NAVY (‡)		155	91	64	13	13	13	13	12																		0				
1	2022	Total		1,131	662	469	94	94	94	94	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
1	2023	AF		761	0	761	-	-	-	-	-	64	64	64	64	64	63	63	63	63	63	63	63						0				
1	2023	NAVY (‡)		379	0	379	-	-	-	-	-	32	32	32	32	32	32	31	31	31	31	31							0				
1	2023	Total		1,140	0	1,140	-	-	-	-	-	96	96	96	96	96	95	95	94	94	94	94	94	-	-	-	-	-	0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2		P-1 Line Item Number / Title: SDB002 / SMALL DIAMETER BOMB II
		Item Number / Title [DODIC]: SMALL DIAMETER BOMB II

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Raytheon - Tucson AZ	1,140	1,925	2,100	0	0	0	0	0	4	26	30

Remarks:

- FY2023 quantities may fall are below minimum sustainment rate (MSR); however, with FMS and DoN purchases, the program will be at or above MSR.
- P-21 monthly delivery schedules do not reflect contractual agreements for Lots 1-6, which are based on quarterly AUR deliveries. Monthly delivery schedules began with the Lot 7 production contract.

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

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** SIAW24 / Stand-In Attack Weapon (SIAW)

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207328F **Other Related Program Elements:** 0207328F

Line Item MDAP/MAIS Code: 439

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	42	-	42	14	128	116	50	2,650	3,000
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.000	77.975	-	77.975	41.710	207.739	273.593	254.689	7,784.500	8,640.206
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	0.000	0.000
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.000	77.975	-	77.975	41.710	207.739	273.593	254.689	7,784.500	8,640.206
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.000	77.975	-	77.975	41.710	207.739	273.593	254.689	7,784.500	8,640.206

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	1.576	-	1.576	1.614	1.226	1.181	4.287	2.387	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	1.857	-	1.857	2.979	1.623	2.359	5.094	2.938	2.880

Description:

This Line Item (SIAW24) is an FY23 New Start.

The Stand-in Attack Weapon (SIAW) system will provide the capability to strike rapidly re-locatable targets that create the Anti-Access/Area Denial (A2/AD) environment. SIAW targets include Theater Ballistic Missile Launchers, Land Attack and Anti-Ship Cruise Missile Launchers, GPS Jammers, Anti-Satellite Systems, and Integrated Air Defense Systems. The SIAW missile system will be developed under a Digital Acquisition (DA) approach in a competitive environment that will emphasize agility and innovation. Interim combat capability will be pursued through the Navy's Advanced Anti-Radiation Guided Missile-Extended Range (AARGM-ER) program with improved warhead/fuze and F-35 integration (including Universal Armament Interface [UAI] and Mission Planning).

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

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

Funding for this exhibit contained in PE 0207328F. Additional All Up Rounds (AURs) being procured under Navy PE 0204162N/0206138M.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** SIAW24 / Stand-In Attack Weapon (SIAW)

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207328F **Other Related Program Elements:** 0207328F

Line Item MDAP/MAIS Code: 439

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>
P-5	Stand-In Attack Weapon (SIAW)	P-5a, P-21	B		- / -	- / 0.000	- / 0.000	42 / 77.975	- / -	42 / 77.975
P-40	Total Gross/Weapon System Cost				- / -	- / 0.000	- / 0.000	42 / 77.975	- / -	42 / 77.975

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

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

Justification:
 This program is a new start.
 FY23 funding will procure 42 AARGM-ER AUR missiles and associated support costs.
 Note: Procurement quantities can change based on negotiated options/pricing bands and available funding, in accordance with Title 10, U.S. Code Section 2308 BUY-TO-BUDGET ACQUISITION.

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Exhibit P-5, Cost Analysis: PB 2023 Air Force						Date: April 2021			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2				P-1 Line Item Number / Title: SIAW24 / Stand-In Attack Weapon (SIAW)			Item Number / Title [DODIC]: Stand-In Attack Weapon (SIAW)		
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:					
Resource Summary				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Procurement Quantity (Units in Each)				-	-	-	42	-	42
Gross/Weapon System Cost (\$ in Millions)				-	0.000	0.000	77.975	-	77.975
Less PY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)				-	0.000	0.000	77.975	-	77.975
Plus CY Advance Procurement (\$ in Millions)				-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)				-	0.000	0.000	77.975	-	77.975
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>									
Initial Spares (\$ in Millions)				-	0.000	0.000	0.000	-	0.000
Gross/Weapon System Unit Cost (\$ in Millions)				-	-	-	1.857	-	1.857

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

Cost Elements	Prior Years			FY 2021			FY 2022			FY 2023 Base			FY 2023 OCO			FY 2023 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Stand-in Attack Weapon Cost																		
Recurring Cost																		
All Up Round - AARGM ER ^(†)	-	-	-	-	-	0.000	-	-	0.000	1.551	42	65.127	-	-	-	1.551	42	65.127
All Up Round - SiAW	-	-	-	-	-	0.000	-	-	-	-	-	0.000	-	-	-	-	-	0.000
Containers	-	-	-	-	-	-	-	-	-	-	-	1.062	-	-	-	-	-	1.062
Engineering Change Orders	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	0.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	66.189	-	-	-	-	-	66.189
<i>Subtotal: Flyaway - Stand-in Attack Weapon Cost</i>	-	-	-	-	-	0.000	-	-	0.000	-	-	66.189	-	-	-	-	-	66.189
Support - Stand-In Attack Weapon (SIAW) Cost																		
Program Support Costs Contractor Services	-	-	-	-	-	-	-	-	-	-	-	1.429	-	-	-	-	-	1.429
Test Support/ Obsolescence	-	-	-	-	-	-	-	-	-	-	-	5.496	-	-	-	-	-	5.496
Program Support Costs Other Government Costs	-	-	-	-	-	-	-	-	-	-	-	0.043	-	-	-	-	-	0.043
Production Support Equipment	-	-	-	-	-	-	-	-	-	-	-	4.818	-	-	-	-	-	4.818
<i>Subtotal: Support - Stand-In Attack Weapon (SIAW) Cost</i>	-	-	-	-	-	-	-	-	-	-	-	11.786	-	-	-	-	-	11.786
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	0.000	1.857	42	77.975	-	-	-	1.857	42	77.975

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Exhibit P-5, Cost Analysis: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SIAW24 / Stand-In Attack Weapon (SIAW)	Item Number / Title [DODIC]: Stand-In Attack Weapon (SIAW)
ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:	

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SIAW24 / Stand-In Attack Weapon (SIAW)	Item Number / Title [DODIC]: Stand-In Attack Weapon (SIAW)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
All Up Round - AARGM ER ^(†)		2023	Northrop Grumman / Northridge, CA	MIPR	NAVAIR	Dec 2022	Oct 2025	42	1.551	N	Sep 2022	

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SIAW24 / Stand-In Attack Weapon (SIAW)	Item Number / Title [DODIC]: Stand-In Attack Weapon (SIAW)
---	--	--

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023												Fiscal Year 2024												BALANCE	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
All Up Round - AARGM ER																															
	1	2023	AF	42	0	42				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42		

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Exhibit P-21, Production Schedule: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SIAW24 / Stand-In Attack Weapon (SIAW)	Item Number / Title [DODIC]: Stand-In Attack Weapon (SIAW)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2025														Fiscal Year 2026														BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2024	BAL DUE AS OF 1 OCT	Calendar Year 2025														Calendar Year 2026														
							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					
All Up Round - AARGM ER																																			
1		2023	AF	42	0	42	-	-	-	-	-	-	-	-	-	-	-	-	14	14	14									0					
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2023 Air Force	Date: April 2021
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: SIAW24 / Stand-In Attack Weapon (SIAW)	Item Number / Title [DODIC]: Stand-In Attack Weapon (SIAW)
---	--	--

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2023	1-8-5 For 2023	MAX For 2023	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Northrop Grumman - Northridge, CA	60	168	168	3	3	34	37	0	0	0	0

Remarks:
Minimum Sustainment Rate is based on combined production of Navy/Air Force assets.

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

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 5: Industrial Facilities	P-1 Line Item Number / Title: 000042 / Industr'l Preparedns/Pol Prevention
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	0.757	0.868	-	0.868	0.889	0.904	0.914	0.929	-	5.261
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	0.757	0.868	-	0.868	0.889	0.904	0.914	0.929	-	5.261
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	0.757	0.868	-	0.868	0.889	0.904	0.914	0.929	-	5.261

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

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

Description:

The Air Force Industrial Preparedness program element combines the resources of several appropriations (Aircraft Procurement, Missile Procurement, and Operation and Maintenance) to create a comprehensive program that aids in ensuring the defense industry can supply reliable, safe, affordable systems to operational commanders.

The Missile Procurement part of Industrial Preparedness supports the management and upkeep of Air Force Plant 44, Tucson, AZ. This includes capital type rehabilitation (MPC 3000) projects for repair and expansion, major capital rehabilitation, construction, demolition, equipment, property appraisals and energy conservation ensuring industrial plant operational safety, security, suitability, and effectiveness to meet the nation's missile production needs; and environmental compliance (MPC 7000) efforts to ensure compliance with federal, state and local regulatory requirements to avoid risk of: shutdown due to non-compliance, clean-up costs, and penalties from Federal State, and Local regulators. The environmental compliance program includes efforts to enhance compliance through pollution prevention reducing controlled emissions and use of hazardous materials. Air Force Plant 44 is the backbone of Department of Defense (DoD) weapon systems assembly and maintenance supporting Storm Breaker, AMRAAM, Javelin, Griffin, Phalanx, Sidewinder, Standard Missiles, Stinger, Tomahawk, and numerous other weapon system. Funds are also provided within this appropriation to assess missile-related industrial base concerns (MPC 6000).

Funding for this exhibit is contained in PE 78011F

Justification:

FY2023 funds missile-related industrial base assessments (MPC 6000), environmental compliance (MPC 7000) and capital type rehabilitation (MPC 3000) programs, at Air Force Plant 44, a unique defense asset which supports the production of several missile systems for the Air Force and the Navy.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 5: Industrial Facilities	P-1 Line Item Number / Title: INDSUR / Industrial Facilities
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.814	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	0.814
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.814	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	0.814
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.814	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	0.814

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

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

Description:

The Air Force Industrial Preparedness program element combines the resources of several appropriations (Aircraft Procurement, Missile Procurement, and Operation and Maintenance) to create a comprehensive program that aids in ensuring the defense industry can supply reliable, safe, affordable systems to operational commanders.

The Missile Procurement part of Industrial Preparedness supports the management and upkeep of Air Force Plant 44, Tucson, AZ. This includes capital type rehabilitation (MPC 3000) projects for repair and expansion, major capital rehabilitation, construction, demolition, equipment, property appraisals and energy conservation ensuring industrial plant operational safety, security, suitability, and effectiveness to meet the nation's missile production needs; and environmental compliance (MPC 7000) efforts to ensure compliance with federal, state and local regulatory requirements to avoid risk of: shutdown due to non-compliance, clean-up costs, and penalties from Federal State, and Local regulators. The environmental compliance program includes efforts to enhance compliance through pollution prevention reducing controlled emissions and use of hazardous materials. Air Force Plant 44 is the backbone of Department of Defense (DoD) weapon systems assembly and maintenance supporting Storm Breaker, AMRAAM, Javelin, Griffin, Phalanx, Sidewinder, Standard Missiles, Stinger, Tomahawk, and numerous other weapon system. Funds are also provided within this appropriation to assess missile-related industrial base concerns (MPC 6000).

Funding for this exhibit is contained in PE 78011F

Justification:

No FY23 funds are requested in the INSUR line

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV

P-1 Line Item Number / Title:
M30FLH / ICBM FUZE MOD

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0604933F **Other Related Program Elements:** 0604933F

Line Item MDAP/MAIS Code: 498

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	51.619	0.000	69.363	114.188	-	114.188	158.295	155.373	152.803	154.625	132.407	988.673
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	0.000	4.100	14.497	-	14.497	43.450	35.507	37.673	43.044	40.336	218.607
Net Procurement (P-1) (<i>\$ in Millions</i>)	51.619	0.000	65.263	99.691	-	99.691	114.845	119.866	115.130	111.581	92.071	770.066
Plus CY Advance Procurement (<i>\$ in Millions</i>)	18.597	43.450	35.507	37.673	-	37.673	43.044	40.336	0.000	0.000	0.000	218.607
Total Obligation Authority (<i>\$ in Millions</i>)	70.216	43.450	100.770	137.364	-	137.364	157.889	160.202	115.130	111.581	92.071	988.673

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

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

Description:

Prior year funding includes 18.4M which was executed in Program 0101213F, M30MLG, MM III Modifications. Funding for this exhibit contained in Program 0101328F.

Program Overview

The Intercontinental Ballistic Missile Fuze Modernization (ICBM Fuze Mod) program will replace the current Mk21/W87-0 fuze to meet warfighter requirements to support both MM III and the Ground Base Strategic Deterrent (GBSD). The new fuze will be a form, fit, and functionally equivalent replacement for the legacy Mk21/W87-0 fuze and will provide a 20-year threshold, 30-year objective design life. The program will support the current force of 400 deployed and 50 non-deployed ICBMs. The program will provide needed MM III weapon system modifications, system testing, support/test equipment, data and training required to accommodate, field, and support the new Mk21 fuze along with the W87-0 warhead as defined in the Air Force Global Strike Command (AFGSC) Requirements Traceability Memo dated 2 December 2013. In addition, the Joint Requirements Oversight Council (JROC) signed the program's JROC Memorandum validating the operational requirement for the program on 6 December 2016. Currently available Mk21/W87-0 fuze quantities do not meet United States Strategic Command (USSTRATCOM) requirements and the legacy fuze is three times beyond its original ten year design life. A replacement Mk21/W87-0 fuze is urgently required to meet warfighter requirements and to ensure operational capability.

The ICBM Fuze Mod will procure 655 Mk21/W87-0 operationally-configured replacement fuzes, reduced from 724 units previously reported. A change in the production quantity profile was implemented in the Milestone C Independent Cost Estimate which is aligned to the AFGSC Requirements Memorandum dated July 15, 2021. Fuzes will be delivered and placed in supply for installation by organizational/intermediate maintenance on a schedule to be determined by USSTRATCOM and AFGSC.

Low Rate Initial Production

The production units procured in FY2022 through FY2024 are considered Low Rate Initial Production (LRIP) units. Upon completion of the Full Rate Production (FRP) decision in 2QFY2024, the program will begin FRP.

Life of Program Buy

The ICBM Fuze Modernization program will procure Application Specific Integrated Circuit (ASIC), Heterojunction Bipolar Transistor (HBT), and power source components produced by the National Nuclear Security Administration (NNSA) as a Life of Program Buy (LOPB) in FY2023. The NNSA Office of Stockpile Management (NA-12) procurement strategy for the ICBM Fuze Modernization program is structured to ensure the production schedule requirements are met and to avoid impacting the W80-4 LEP, and W87-1 Modification program schedules. The NNSA requires DoD funding that is in alignment with the planned production runs in order to meet NNSA's production commitments. This is the only viable approach given there is neither component availability nor process capacity on any other schedule.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV		P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD
ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604933F	Other Related Program Elements: 0604933F
Line Item MDAP/MAIS Code: 498		
<p>Purchasing components in a single production run or lot to support joint production activities is required to manage capacity and resource conflicts in the production workload within NNSA. NNSA has a large number of current and pending modernization activities necessitating careful planning and coordination among related programs that rely on the same vendors, components, and plant production space. Funding and building these components as a Life of Program Buy (LOPB) is critical to maintaining production line availability and schedule for the Mk21 ICBM Fuze Modernization, W88 Alt 370, B61-12 LEP, W87-1 Modification, and W80-4 LEP programs.</p> <p>Long Lead Production The ICBM Fuze Modernization program continues to require advance procurement authority in FY2023 to procure long lead items (Model XI sensor hardware, Thermal Protection Device (TPD) connectors, cable assemblies, connector assemblies, and Commercial Off-the-Shelf (COTS) components for the Radar Module, Pathlength Module (PLM), Missile Interface & Controller Module (MICM), Firing Set Interface Module (FSIM), and Launch Safety Device Assembly (LSDA). Failure to procure the parts will result in delayed fuze production and fielding activities.</p> <p>Prior Year Activities Prior Years funding includes Life of Type Buy (LOTB) procurements to affordably acquire qualified COTS parts for use during and after exposure to nuclear environments and to ensure commonality between the Air Force and the Navy. LOTB was executed jointly with the Navy to provide a pool of interchangeable, qualified, and certified parts for each service's fuze. Procured parts will be delivered to NNSA's Kansas City National Security Campus for use in producing common component modules for the Air Force and Navy fuzes. Some component modules will be entirely interchangeable between the Services while others will have interchangeable sub-assemblies.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force	Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV	P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD

ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0604933F	Other Related Program Elements: 0604933F
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Line Item MDAP/MAIS Code: 498

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	5915 / ICBM Fuze Modernization (Service Life Extension)		B		- / 51.619	- / 0.000	- / 69.363	- / 114.188	- / 0.000	- / 114.188
P-40	Total Gross/Weapon System Cost				- / 51.619	- / 0.000	- / 69.363	- / 114.188	- / -	- / 114.188

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	5915 / ICBM Fuze Modernization (Service Life Extension)		B		- / 158.295	- / 155.373	- / 152.803	- / 154.625	- / 132.407	- / 988.673
P-40	Total Gross/Weapon System Cost				- / 158.295	- / 155.373	- / 152.803	- / 154.625	- / 132.407	- / 988.673

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

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

Justification:
Where applicable, justification for individual modification is provided in the P-3A exhibits.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD	Modification Number / Title: 5915 / ICBM Fuze Modernization

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	51.619	0.000	69.363	114.188	0.000	114.188	158.295	155.373	152.803	154.625	132.407	988.673
Less PY Advance Procurement (\$ in Millions)	-	-	4.100	14.497	-	14.497	43.450	35.507	37.673	43.044	40.336	218.607
Net Procurement (P-1) (\$ in Millions)	51.619	0.000	65.263	99.691	0.000	99.691	114.845	119.866	115.130	111.581	92.071	770.066
Plus CY Advance Procurement (\$ in Millions)	18.597	43.450	35.507	37.673	-	37.673	43.044	40.336	0.000	0.000	0.000	218.607
Total Obligation Authority (\$ in Millions)	70.216	43.450	100.770	137.364	0.000	137.364	157.889	160.202	115.130	111.581	92.071	988.673

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	0.000	0.000
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Program Overview

The Intercontinental Ballistic Missile Fuze Modernization (ICBM Fuze Mod) program will replace the current Mk21/W87-0 fuze to meet warfighter requirements to support both MM III and the Ground Base Strategic Deterrent (GBSD). The new fuze will be a form, fit, and functionally equivalent replacement for the legacy Mk21/W87-0 fuze and will provide a 20-year threshold, 30-year objective design life. The program will support the current force of 400 deployed and 50 non-deployed ICBMs. The program will provide needed MM III weapon system modifications, system testing, support/test equipment, data and training required to accommodate, field, and support the new Mk21 fuze along with the W87-0 warhead as defined in the Air Force Global Strike Command (AFGSC) Requirements Traceability Memo dated 2 December 2013. In addition, the Joint Requirements Oversight Council (JROC) signed the program's JROC Memorandum validating the operational requirement for the program on 6 December 2016. Currently available Mk21/W87-0 fuze quantities do not meet United States Strategic Command (USSTRATCOM) requirements and the legacy fuze is three times beyond its original ten year design life. A replacement Mk21/W87-0 fuze is urgently required to meet warfighter requirements and to ensure operational capability.

The ICBM Fuze Mod will procure 655 Mk21/W87-0 operationally-configured replacement fuzes, reduced from 724 units previously reported. A change in the production quantity profile was implemented in the Milestone C Independent Cost Estimate which is aligned to the AFGSC Requirements Memorandum dated July 15, 2021. Fuzes will be delivered and placed in supply for installation by organizational/intermediate maintenance on a schedule to be determined by USSTRATCOM and AFGSC.

Low Rate Initial Production

The production units procured in FY2022 through FY2024 are considered Low Rate Initial Production (LRIP) units. Upon completion of the Full Rate Production (FRP) decision in 2QFY2024, the program will begin FRP.

Life of Program Buy

The ICBM Fuze Modernization program will procure Application Specific Integrated Circuit (ASIC), Heterojunction Bipolar Transistor (HBT), and power source components produced by the National Nuclear Security Administration (NNSA) as a Life of Program Buy (LOPB) in FY2023. The NNSA Office of Stockpile Management (NA-12) procurement strategy for the ICBM Fuze Modernization program is structured to ensure the production schedule requirements are met and to avoid impacting the W80-4 LEP, and W87-1 Modification program schedules. The NNSA requires DoD funding that is in alignment with the planned production runs in order to meet NNSA's production commitments. This is the only viable approach given there is neither component availability nor process capacity on any other schedule.

Purchasing components in a single production run or lot to support joint production activities is required to manage capacity and resource conflicts in the production workload within NNSA. NNSA has a large number of current and pending modernization activities necessitating careful planning and coordination among related programs that rely on the same vendors, components, and plant production space. Funding and building these components as a Life of Program Buy (LOPB) is critical to maintaining production line availability and schedule for the Mk21 ICBM Fuze Modernization, W88 Alt 370, B61-12 LEP, W87-1 Modification, and W80-4 LEP programs.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD	Modification Number / Title: 5915 / ICBM Fuze Modernization
ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:	
<p>Long Lead Production The ICBM Fuze Modernization program continues to require advance procurement authority in FY2023 to procure long lead items (Model XI sensor hardware, Thermal Protection Device (TPD) connectors, cable assemblies, connector assemblies, and Commercial Off-the-Shelf (COTS) components for the Radar Module, Pathlength Module (PLM), Missile Interface & Controller Module (MICM), Firing Set Interface Module (FSIM), and Launch Safety Device Assembly (LSDA). Failure to procure the parts will result in delayed fuze production and fielding activities.</p> <p>Prior Year Activities Prior Years funding includes Life of Type Buy (LOTB) procurements to affordably acquire qualified COTS parts for use during and after exposure to nuclear environments and to ensure commonality between the Air Force and the Navy. LOTB was executed jointly with the Navy to provide a pool of interchangeable, qualified, and certified parts for each service's fuze. Procured parts will be delivered to NNSA's Kansas City National Security Campus for use in producing common component modules for the Air Force and Navy fuzes. Some component modules will be entirely interchangeable between the Services while others will have interchangeable sub-assemblies.</p> <p>Milestone/Development Status The program entered Phase 6.3 Developmental Engineering in FY2013 and completed in FY2019. The first flight test was performed in FY2019 and the second flight test was performed in FY2020. Phase 6.4 Production Engineering will be completed in FY2024. The program will enter Phase 6.5 First Production in FY2024. Research, Development, Test and Evaluation (RDT&E) is contained in Program Element 0604933F. The program is tailored to use the joint Department of Defense - Department of Energy Phase 6.X processes for routine nuclear stockpile activities to align with Navy and NNSA operations.</p> <p>The ICBM Fuze Mod Program discovered the need to de-couple Milestone C and Full Rate Production (FRP) from the DOE Phase 6.x process Phase 6.5 and Phase 6.6 respectively. At the time of the initial baseline in 2014, Phase 6.5 and Phase 6.6 were selected as the surrogates for the DoD milestones. Since that time, differences between the DOE Phase 6.x process and the DoDI 5000-series instructions, as it relates to funding Title 10 programs, drove a de-coupling of these milestones into the Acquisition Program Baseline. This program is still being managed according to the Phase 6.x process; however, Milestone C (completed October 2021) and FRP (planned for 2QFY2024) were added as milestones to satisfy statutory requirements of a Title 10 funded acquisition.</p>		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2021			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1					P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD					Modification Number / Title: 5915 / ICBM Fuze Modernization			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: LGM-30G				Modification Type: Service Life Extension				Related RDT&E PEs: 0604933F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0604933F	46 / 1,001.571	- / 151.158	27 / 129.709	5 / 98.376	- / -	5 / 98.376	10 / 72.756	- / 14.329	- / -	- / -	- / -	88 / 1,467.899	
Procurement													
Modification Item 1 of 2: ICBM Fuze													
B Kits													
Recurring													
ICBM Fuze:EQUIPMENT Group B (Active)	- / 0.000	- / -	40 / 39.780	65 / 88.024	- / -	65 / 88.024	99 / 149.170	104 / 141.132	110 / 144.211	125 / 147.077	117 / 123.533	660 / 832.927	
<i>Subtotal: Recurring</i>	- / 0.000	- / -	- / 39.780	- / 88.024	- / -	- / 88.024	- / 149.170	- / 141.132	- / 144.211	- / 147.077	- / 123.533	- / 832.927	
<i>Subtotal: ICBM Fuze</i>	- / 0.000	- / -	- / 39.780	- / 88.024	- / -	- / 88.024	- / 149.170	- / 141.132	- / 144.211	- / 147.077	- / 123.533	- / 832.927	
Modification Item 2 of 2: Life of Program Buy (NNSA)													
B Kits													
Recurring													
Life of Program Buy (NNSA):EQUIPMENT Group B (Active)	- / -	- / -	- / 25.713	- / 20.698	- / -	- / 20.698	- / 4.354	- / 2.117	- / 0.529	- / -	- / -	- / 53.411	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 25.713	- / 20.698	- / -	- / 20.698	- / 4.354	- / 2.117	- / 0.529	- / -	- / -	- / 53.411	
<i>Subtotal: Life of Program Buy (NNSA)</i>	- / -	- / -	- / 25.713	- / 20.698	- / -	- / 20.698	- / 4.354	- / 2.117	- / 0.529	- / -	- / -	- / 53.411	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / -	- / 65.493	- / 108.722	- / -	- / 108.722	- / 153.524	- / 143.249	- / 144.740	- / 147.077	- / 123.533	- / 886.338	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 51.619	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 51.619	
Change Orders	- / -	- / -	- / 0.812	- / 1.052	- / -	- / 1.052	- / 1.326	- / 1.332	- / 0.953	- / 0.927	- / 0.778	- / 17.180	
SIM/TRAINER	- / -	- / -	- / 1.077	- / 1.808	- / -	- / 1.808	- / -	- / -	- / -	- / -	- / -	- / 2.885	
OTHER GOVT	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.007	- / 6.855	- / 4.000	- / 3.596	- / 3.555	- / 18.013	
PMA - Other Gov't Costs	- / -	- / -	- / 1.981	- / 2.606	- / -	- / 2.606	- / 3.438	- / 3.937	- / 3.110	- / 3.025	- / 4.541	- / 22.638	
<i>Subtotal: Support</i>	- / 51.619	- / -	- / 3.870	- / 5.466	- / -	- / 5.466	- / 4.771	- / 12.124	- / 8.063	- / 7.548	- / 8.874	- / 102.335	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	51.619	0.000	69.363	114.188	0.000	114.188	158.295	155.373	152.803	154.625	132.407	988.673	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD			Modification Number / Title: 5915 / ICBM Fuze Modernization	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 2: ICBM Fuze							
Manufacturer Information							
Manufacturer Name: Kansas City National Security Campus				Manufacturer Location: Kansas City, KS			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 30			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		Apr 2022	Dec 2022	Dec 2023	Dec 2024	Dec 2025	Dec 2026
Delivery Dates		Jul 2024	Jun 2025	Jun 2026	Jun 2027	Jun 2028	Jun 2029
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 660		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD			Modification Number / Title: 5915 / ICBM Fuze Modernization	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 2 of 2: Life of Program Buy (NNSA)							
Manufacturer Information							
Manufacturer Name: National Nuclear Security Administration				Manufacturer Location: Various			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 0			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 0		

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Air Force										Date: April 2021		
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV							P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD					
Program Elements for Code B Items: 0604933F							Other Related Program Elements: 0604933F					
Line Item MDAP/MAIS Code: 498												

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	18.597	43.450	35.507	37.673	-	37.673	43.044	40.336	0.000	0.000	0.000	218.607
Net Procurement (P-1) (<i>\$ in Millions</i>)	18.597	43.450	35.507	37.673	-	37.673	43.044	40.336	0.000	0.000	0.000	218.607
Total Obligation Authority (<i>\$ in Millions</i>)	18.597	43.450	35.507	37.673	-	37.673	43.044	40.336	0.000	0.000	0.000	218.607

Description:

The ICBM Fuze Modernization program continues to require advance procurement authority in FY2023 to procure long lead items (Model XI sensor hardware, Thermal Protection Device (TPD) connectors, cable assemblies, connector assemblies, and Commercial Off-the-Shelf (COTS) components for the Radar Module, Pathlength Module (PLM), Missile Interface & Controller Module (MICM), Firing Set Interface Module (FSIM), and Launch Safety Device Assembly (LSDA)). Failure to procure the parts will result in delayed fuze production and fielding activities.

ICBM Fuze Modernization program advance procurement is utilized to reduce the required lead time for production assets from time of full funding by 36 months.

The end items for which the long lead items listed on the P-10 will be used to produce are fully funded in the FY2026 budget.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV		P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD
Program Elements for Code B Items: 0604933F		Other Related Program Elements: 0604933F

Line Item MDAP/MAIS Code: 498

Exhibits Schedule				Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	5915 / ICBM Fuze Modernization			- / 18.597	- / 43.450	- / 35.507	- / 37.673	- / -	- / 37.673
P-40	Total Gross/Weapon System Cost			- / 18.597	- / 43.450	- / 35.507	- / 37.673	- / -	- / 37.673

Exhibits Schedule				FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-10	5915 / ICBM Fuze Modernization			- / 43.044	- / 40.336	- / 0.000	- / 0.000	- / 0.000	- / 218.607
P-40	Total Gross/Weapon System Cost			- / 43.044	- / 40.336	- / 0.000	- / 0.000	- / 0.000	- / 218.607

*Title represents the P-10 Title for Advance Procurement.
 Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
 The ICBM Fuze Modernization program continues to require advance procurement authority in FY2023 to procure long lead items (Model XI sensor hardware, Thermal Protection Device (TPD) connectors, cable assemblies, connector assemblies, and Commercial Off-the-Shelf (COTS) components for the Radar Module, Pathlength Module (PLM), Missile Interface & Controller Module (MICM), Firing Set Interface Module (FSIM), and Launch Safety Device Assembly (LSDA)). Failure to procure the parts will result in delayed fuze production and fielding activities.

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD	P-3a Number / Title: 5915 / ICBM Fuze Modernization
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First System (2023) Award Date: December 2025	First System (2023) Completion Date: June 2028	Interval Between Systems: 0 Months
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	Production Leadtime (Months)	Prior Years (Each)	FY 2021 (Each)	FY 2022 (Each)	FY 2023 (Each)	FY 2024 (Each)	FY 2025 (Each)	FY 2026 (Each)	FY 2027 (Each)	To Complete (Each)	Total (Each)
ICBM Fuze Modernization											
Quantity	30	-	-	-	-	-	-	-	-	-	-

	When Required (Months)	Prior Years (\$ M)	FY 2021 (\$ M)	FY 2022 (\$ M)	FY 2023 (\$ M)	FY 2024 (\$ M)	FY 2025 (\$ M)	FY 2026 (\$ M)	FY 2027 (\$ M)	To Complete (\$ M)	Total (\$ M)
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CFE												
	When Required (Months)	Prior Years (\$ M)	FY 2021 (\$ M)	FY 2022 (\$ M)	FY 2023 (\$ M)	FY 2024 (\$ M)	FY 2025 (\$ M)	FY 2026 (\$ M)	FY 2027 (\$ M)	To Complete (\$ M)	Total (\$ M)	
ICBM FUZE MOD Hardware: ICBM Fuze Mod Hardware	24	18.597	43.450	0.000	0.000	0.000	0.000	0.000	0.000	-	0.000	62.047
ICBM FUZE MOD Hardware: Radar COTS	24	-	-	0.552	0.584	0.667	0.625	0.000	0.000	-	2.428	
ICBM FUZE MOD Hardware: MICM COTS	24	-	-	0.431	0.456	0.521	0.489	0.000	0.000	-	1.897	
ICBM FUZE MOD Hardware: FSIM COTS	24	-	-	0.936	0.992	1.135	1.063	0.000	0.000	-	4.126	
ICBM FUZE MOD Hardware: PLM COTS	24	-	-	0.060	0.065	0.074	0.069	0.000	0.000	-	0.268	
ICBM FUZE MOD Hardware: Mod XI Sensor Assembly	24	-	-	29.899	31.731	36.257	33.975	0.000	0.000	-	131.862	
ICBM FUZE MOD Hardware: TPD Connectors	24	-	-	0.258	0.273	0.312	0.293	0.000	0.000	-	1.136	
ICBM FUZE MOD Hardware: LSDA Header Shell and Parts	24	-	-	1.087	1.152	1.316	1.234	0.000	0.000	-	4.789	
ICBM FUZE MOD Hardware: Cable Assembly	24	-	-	0.605	0.641	0.731	0.685	0.000	0.000	-	2.662	
ICBM FUZE MOD Hardware: Connector and Subassemblies	24	-	-	0.602	0.638	0.729	0.683	0.000	0.000	-	2.652	
ICBM FUZE MOD Hardware: Other (Key Number and Misc Items)	24	-	-	1.077	1.141	1.302	1.220	0.000	0.000	-	4.740	
<i>Total: CFE</i>		18.597	43.450	35.507	37.673	43.044	40.336	0.000	0.000	0.000	218.607	
Total Advance Procurement/Obligation Authority		18.597	43.450	35.507	37.673	43.044	40.336	0.000	0.000	0.000	218.607	

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2023 Air Force						Date: April 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1		P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD				P-3a Number / Title: 5915 / ICBM Fuze Modernization	
Cost Elements	QPA <i>(Each)</i>	FY 2023					
		Production Leadtime <i>(Months)</i>	Unit Cost <i>(\$ M)</i>	Contract Forecast Date	2023 Qty <i>(Each)</i>	For FY	Total Cost Request <i>(\$ M)</i>
CFE							
ICBM FUZE MOD Hardware: ICBM Fuze Mod Hardware	-						0.000
ICBM FUZE MOD Hardware: Radar COTS	1	32	0.005	Jan 2025	110	2026	0.584
ICBM FUZE MOD Hardware: MICM COTS	1	33	0.004	Dec 2024	110	2026	0.456
ICBM FUZE MOD Hardware: FSIM COTS	1	31	0.009	Feb 2025	110	2026	0.992
ICBM FUZE MOD Hardware: PLM COTS	1	30	0.001	Mar 2025	110	2026	0.065
ICBM FUZE MOD Hardware: Mod XI Sensor Assembly	1	53	0.288	Apr 2023	110	2026	31.731
ICBM FUZE MOD Hardware: TPD Connectors	1	27	0.002	Jun 2025	110	2026	0.273
ICBM FUZE MOD Hardware: LSDA Header Shell and Parts	1	30	0.010	Mar 2025	110	2026	1.152
ICBM FUZE MOD Hardware: Cable Assembly	1	36	0.006	Sep 2024	110	2026	0.641
ICBM FUZE MOD Hardware: Connector and Subassemblies	1	25	0.006	Aug 2025	110	2026	0.638
ICBM FUZE MOD Hardware: Other (Key Number and Misc Items)	1	36	0.010	Sep 2024	110	2026	1.141
<i>Total: CFE</i>							37.673
Total Advance Procurement/Obligation Authority							37.673

Description:
 The ICBM Fuze Modernization program continues to require advance procurement authority in FY2023 to procure long lead items (Model XI sensor hardware, Thermal Protection Device (TPD) connectors, cable assemblies, connector assemblies, and Commercial Off-the-Shelf (COTS) components for the Radar Module, Pathlength Module (PLM), Missile Interface & Controller Module (MICM), Firing Set Interface Module (FSIM), and Launch Safety Device Assembly (LSDA)). Failure to procure the parts will result in delayed fuze production and fielding activities.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV	P-1 Line Item Number / Title: M30MLG / MM III Modifications
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0101213F	Other Related Program Elements: 0101213F, 0303131F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	320.980	81.137	88.579	68.193	-	68.193	48.364	46.864	16.197	10.259	-	680.573
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	320.980	81.137	88.579	68.193	-	68.193	48.364	46.864	16.197	10.259	-	680.573
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	320.980	81.137	88.579	68.193	-	68.193	48.364	46.864	16.197	10.259	-	680.573

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

Initial Spares (<i>\$ in Millions</i>)	-	6.865	4.947	0.549	-	0.549	3.400	3.990	-	-	-	19.751
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This line item funds modifications to the LGM-30, Minuteman III (MM III) Intercontinental Ballistic Missile (ICBM) weapon system. The MM III is a strategic missile capable of delivering special weapons against a wide range of targets. The purpose of the modifications budgeted in FY23 is to support the operational capability of the Minuteman III ICBM through the completion of deployment of the Ground Based Strategic Deterrent (GBSD). Funding may be used to address Diminishing Manufacturing Sources (DMS) issues.

The modifications being performed on LGM-30 include: Minuteman Minimum Essential Emergency Communications Network (MEECN) modification, LGM-30G Arm/Disarm Switch Replacement (ADSR), LGM-30G Low Cost Modifications (LCM), LGM-30G Fast Rising B-Plug Service Life Extension (FRBP SLEP), LGM-30G ICBM Cryptography Upgrade II (ICU II), LGM-30G Automatic Switching Unit (ASU), and LGM-30G Remote Visual Assessment II (RVA II).

RDT&E funding for modifications other than MEECN is contained in PE 0101213F (PE 0604851F prior to FY15); MEECN is contained in PE 0303131F.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV

P-1 Line Item Number / Title:
M30MLG / MM III Modifications

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0101213F **Other Related Program Elements:** 0101213F, 0303131F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	5910 / MINUTEMAN MEECN MODIFICATION (Capability Improvement)				- / 129.384	- / -	- / 2.674	- / 4.090	- / -	- / 4.090
P-40a***	5921 / MM LCC Block Upgrades (Service Life Extension)				- / 17.254	- / 24.420	- / 2.136	- / -	- / -	- / -
P-40a***	5928 / T-9 Launch Facility Trainer Conversion (T-9) (Other)				- / 35.516	- / 4.008	- / -	- / -	- / -	- / -
P-40a***	5932 / LGM-30G Remote Visual Assessment Phase II (RVA II) (Other)				- / 7.819	- / 20.443	- / 54.590	- / 2.363	- / -	- / 2.363
P-40a***	5942 / LGM-30G Launch Control Center Break-In-Kit (LCCB) (Other)				- / 0.226	- / -	- / -	- / -	- / -	- / -
P-40a***	5947 / A/D Switch Replacement (Reliability & Maintainability)				- / -	- / -	- / 4.534	- / 4.469	- / -	- / 4.469
P-40a***	5948 / CMPT upgrade (Other)				- / 0.258	- / -	- / -	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Other)				- / 12.682	- / 0.160	- / 4.899	- / 5.038	- / -	- / 5.038
P-3a	5916 / ICBM Cryptography Upgrade Increment II (Capability Improvement)		A		- / 116.569	- / 28.615	- / 10.782	- / 7.054	- / 0.000	- / 7.054
P-3a	5925 / MM III Auto Switching Unit (ASU) (Service Life Extension)		A		- / 1.272	- / 3.491	- / 8.964	- / 35.497	- / 0.000	- / 35.497
P-3a	5949 / Fast Rising B-Plug Service Extension Program (FRBP SLEP) (Service Life Extension)		B		- / 0.000	- / 0.000	- / 0.000	- / 9.682	- / 0.000	- / 9.682
P-40	Total Gross/Weapon System Cost				- / 320.980	- / 81.137	- / 88.579	- / 68.193	- / -	- / 68.193

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	5910 / MINUTEMAN MEECN MODIFICATION (Capability Improvement)				- / 4.380	- / 4.693	- / 2.999	- / -	- / -	- / 148.220
P-40a***	5921 / MM LCC Block Upgrades (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / 43.810
P-40a***	5928 / T-9 Launch Facility Trainer Conversion (T-9) (Other)				- / -	- / -	- / -	- / -	- / -	- / 39.524
P-40a***	5932 / LGM-30G Remote Visual Assessment Phase II (RVA II) (Other)				- / -	- / -	- / -	- / -	- / -	- / 85.215
P-40a***	5942 / LGM-30G Launch Control Center Break-In-Kit (LCCB) (Other)				- / -	- / -	- / -	- / -	- / -	- / 0.226
P-40a***	5947 / A/D Switch Replacement (Reliability & Maintainability)				- / 0.000	- / -	- / -	- / -	- / -	- / 9.003
P-40a***	5948 / CMPT upgrade (Other)				- / -	- / -	- / -	- / -	- / -	- / 0.258
P-40a***	99999X / Low Cost Modifications (Other)				- / 0.618	- / 8.825	- / 9.167	- / 10.259	- / -	- / 51.648
P-3a	5916 / ICBM Cryptography Upgrade Increment II (Capability Improvement)		A		- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 163.020
P-3a	5925 / MM III Auto Switching Unit (ASU) (Service Life Extension)		A		- / 31.729	- / 17.966	- / -	- / -	- / -	- / 98.919
P-3a	5949 / Fast Rising B-Plug Service Extension Program (FRBP SLEP) (Service Life Extension)		B		- / 11.637	- / 15.380	- / 4.031	- / -	- / -	- / 40.730
P-40	Total Gross/Weapon System Cost				- / 48.364	- / 46.864	- / 16.197	- / 10.259	- / -	- / 680.573

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

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

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV		P-1 Line Item Number / Title: M30MLG / MM III Modifications
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0101213F	Other Related Program Elements: 0101213F, 0303131F
Line Item MDAP/MAIS Code: N/A		
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.		

Justification:
This program, P-3A Mod 5949, Fast Rising B-Plug Service Extension Program (FRBP SLEP), is a new start.
Where applicable, justification for individual modifications is provided in the P-3A exhibits.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: M30MLG / MM III Modifications	Modification Number / Title: 5916 / ICBM Cryptography Upgrade Increment II

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	116.569	28.615	10.782	7.054	0.000	7.054	0.000	0.000	0.000	0.000	-	163.020
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	116.569	28.615	10.782	7.054	0.000	7.054	0.000	0.000	0.000	0.000	-	163.020
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	116.569	28.615	10.782	7.054	0.000	7.054	0.000	0.000	0.000	0.000	-	163.020

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

Initial Spares (<i>\$ in Millions</i>)	14.478	1.936	3.794	-	-	-	-	-	-	-	-	20.208
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

LGM-30G MM Crypto Mods / ICBM Cryptography Upgrade II (ICU II) procures and fields upgraded A4 Drawers that implement KS-60 Remote Key/Code Change (RCC), Irreversible Transformation (IT) and Continuous Signal Lockout (CSLO) capabilities that increases code security and prevents widespread loss of status monitoring. Cryptography modifications will increase security during code changes by reducing the frequency of open sites by 75 days annually while reducing associated labor costs.

Milestone/Development Status

ICU II Engineering & Manufacturing Development for A4 Drawer concluded 2QFY2020.

Key production activities include:

- ICU II Milestone C: Aug FY18
- ICU II Production Unfinalized Contract Action: Oct FY19
- ICU II Production Finalization and Contract Award: Aug FY19
- ICU II Production and Deployment Phase: 1QFY2019 - 2QFY2024
- ICU II Required Assets Available (RAA) Initial Operational Capability (IOC): 3QFY2022
- ICU II Required Assets Available (RAA) Full Operational Capability (FOC): 2QFY2024

ICU II installation will be performed by operational forces beginning in FY22 as part of routine key and code change activities.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: M30MLG / MM III Modifications	Modification Number / Title: 5916 / ICBM Cryptography Upgrade Increment II

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Models of Systems Affected: LGM-30G	Modification Type: Capability Improvement	Related RDT&E PEs: 0101213F
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Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 1:</i> A4 Drawer Replacement												
B Kits												
Recurring												
A4 Drawer Replacement:EQUIPMENT Group B (Active)	226 / 98.067	231 / 10.367	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	457 / 108.434
<i>Subtotal: Recurring</i>	- / 98.067	- / 10.367	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 108.434
<i>Subtotal: A4 Drawer Replacement</i>	- / 98.067	- / 10.367	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 108.434
<i>Subtotal: Procurement, All Modification Items</i>	- / 98.067	- / 10.367	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 108.434
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / 7.968	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.968
OTHER GOVT	- / 6.535	- / 5.136	- / 3.650	- / 3.100	- / -	- / 3.100	- / -	- / -	- / -	- / -	- / -	- / 18.421
Change Orders	- / 0.086	- / 3.948	- / 3.643	- / 0.459	- / -	- / 0.459	- / -	- / -	- / -	- / -	- / -	- / 8.136
SUPPORT-EQUIP	- / -	- / 5.778	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.778
A&AS	- / 2.276	- / 1.271	- / 1.519	- / 1.519	- / -	- / 1.519	- / -	- / -	- / -	- / -	- / -	- / 6.585
PMA - Other Gov't Costs	- / 1.637	- / 2.115	- / 1.970	- / 1.976	- / -	- / 1.976	- / -	- / -	- / -	- / -	- / -	- / 7.698
<i>Subtotal: Support</i>	- / 18.502	- / 18.248	- / 10.782	- / 7.054	- / -	- / 7.054	- / -	- / -	- / -	- / -	- / -	- / 54.586
Installation												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)	116.569	28.615	10.782	7.054	0.000	7.054	0.000	0.000	0.000	0.000	-	163.020

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30MLG / MM III Modifications			Modification Number / Title: 5916 / ICBM Cryptography Upgrade Increment II	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 1: A4 Drawer Replacement							
Manufacturer Information							
Manufacturer Name: The Boeing Company				Manufacturer Location: Heath, OH			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 26			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Oct 2020						
Delivery Dates	Dec 2022						
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 457		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force	Date: April 2021
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: M30MLG / MM III Modifications	Modification Number / Title: 5925 / MM III Auto Switching Unit (ASU)
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ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1.272	3.491	8.964	35.497	0.000	35.497	31.729	17.966	-	-	-	98.919
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1.272	3.491	8.964	35.497	0.000	35.497	31.729	17.966	-	-	-	98.919
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1.272	3.491	8.964	35.497	0.000	35.497	31.729	17.966	-	-	-	98.919

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

Initial Spares (<i>\$ in Millions</i>)	-	-	0.379	-	-	-	-	-	-	-	-	0.379
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The ASU Program will replace the obsolete Automatic Switching Unit, Diesel Electric Unit, and Minuteman Power Processor with modern commercial off-the-shelf components to improve reliability and supportability. All Launch Facilities and Missile Alert Facilities at Minot Air Force Base (AFB) and Malmstrom AFB will be impacted by the ASU program. The ASU program will also modify Minuteman trainers and facilities at Vandenberg Space Force Base. The new equipment is expected to have a design life of 10 years and will replace equipment that has exceeded its original design life.

ASU has been de-scoped by Air Force Global Strike Command and will not be installed at FE Warren AFB.

Milestone/Development Status

Key production activities include:

ASU Milestone C: May 2019

Production and Deployment Phase: 4QFY2021 - 4QFY2025

ASU RAA: Sep 2025

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2021			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1					P-1 Line Item Number / Title: M30MLG / MM III Modifications					Modification Number / Title: 5925 / MM III Auto Switching Unit (ASU)			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: LGM-30G				Modification Type: Service Life Extension				Related RDT&E PEs: 0101213F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Auto Switching Unit													
B Kits													
Recurring													
Auto Switching Unit:EQUIPMENT Group B (Active)	- / -	- / -	40 / 7.224	158 / 20.391	- / -	158 / 20.391	125 / 13.570	11 / 1.737	- / -	- / -	- / -	334 / 42.922	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 7.224	- / 20.391	- / -	- / 20.391	- / 13.570	- / 1.737	- / -	- / -	- / -	- / 42.922	
<i>Subtotal: Auto Switching Unit</i>	- / -	- / -	- / 7.224	- / 20.391	- / -	- / 20.391	- / 13.570	- / 1.737	- / -	- / -	- / -	- / 42.922	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 7.224	- / 20.391	- / -	- / 20.391	- / 13.570	- / 1.737	- / -	- / -	- / -	- / 42.922	
Support (All Modification Items)													
PMA - Other Gov't Costs	- / -	- / 0.698	- / 1.102	- / 1.034	- / -	- / 1.034	- / 1.356	- / 1.118	- / -	- / -	- / -	- / 5.308	
OTHER GOVT	- / 0.500	- / 2.258	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.758	
A&AS	- / 0.772	- / 0.535	- / 0.638	- / 0.654	- / -	- / 0.654	- / 0.670	- / 0.685	- / -	- / -	- / -	- / 3.954	
<i>Subtotal: Support</i>	- / 1.272	- / 3.491	- / 1.740	- / 1.688	- / -	- / 1.688	- / 2.026	- / 1.803	- / -	- / -	- / -	- / 12.020	
Installation													
<i>Modification Item 1 of 1:</i> Auto Switching Unit	- / -	- / -	- / -	80 / 13.418	- / -	80 / 13.418	152 / 16.133	102 / 14.426	- / -	- / -	- / -	334 / 43.977	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	80 / 13.418	- / -	80 / 13.418	152 / 16.133	102 / 14.426	- / -	- / -	- / -	334 / 43.977	
Total													
Total Cost (Procurement + Support + Installation)	1.272	3.491	8.964	35.497	0.000	35.497	31.729	17.966	-	-	-	98.919	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: M30MLG / MM III Modifications	Modification Number / Title: 5925 / MM III Auto Switching Unit (ASU)

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: Auto Switching Unit

Manufacturer Information

Manufacturer Name: Northrop Grumman	Manufacturer Location: Ogden, UT
Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 3

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		Feb 2022	Oct 2022	Oct 2023	Oct 2024		
Delivery Dates		May 2022	Jan 2023	Jan 2024	Jan 2025		

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2022	- / -	- / -	- / -	40 / 5.016	- / -	40 / 5.016	- / -	- / -	- / -	- / -	- / -	40 / 5.016
FY 2023	- / -	- / -	- / -	40 / 8.402	- / -	40 / 8.402	118 / 9.006	- / -	- / -	- / -	- / -	158 / 17.408
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	34 / 7.127	91 / 12.875	- / -	- / -	- / -	125 / 20.002
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	11 / 1.551	- / -	- / -	- / -	11 / 1.551
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	80 / 13.418	- / -	80 / 13.418	152 / 16.133	102 / 14.426	- / -	- / -	- / -	334 / 43.977

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	40	40	40	39	39	34	34	34	34	-	-	-	-	-	-	-	-	-	0	334
Out	0	-	-	-	-	-	-	-	-	-	-	40	40	40	39	39	34	34	34	34	-	-	-	-	-	-	-	-	-	0	334

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: M30MLG / MM III Modifications	Modification Number / Title: 5949 / Fast Rising B-Plug Service Extension Program (FRBP SLEP)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	0.000	9.682	0.000	9.682	11.637	15.380	4.031	-	-	40.730
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	0.000	9.682	0.000	9.682	11.637	15.380	4.031	-	-	40.730
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	0.000	9.682	0.000	9.682	11.637	15.380	4.031	-	-	40.730

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

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

Description:

This program, P-3A Mod 5949, Fast Rising B-Plug Service Extension Program (FRBP SLEP), is a new start. The Fast Rising B-Plug (FRBP) provides security functions for the Personnel Access System (PAS) of the Launch Facilities (LFs). It is a 14,000 pound cylinder with 12 locking pins used to deny/delay access to intruders during LF maintenance activities.

This effort includes critical hardware and software modifications to address high obsolescence risk and reliability issues affecting the operational wings.

Milestone/Development Status

Milestone B 4QFY20 (Aug 2020)
Milestone C 3QFY23 (Apr 2023)
FOC 3QFY26 (Jun 2026)

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2021			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1					P-1 Line Item Number / Title: M30MLG / MM III Modifications					Modification Number / Title: 5949 / Fast Rising B-Plug Service Extension Program (FRBP SLEP)			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: LGM-30G				Modification Type: Service Life Extension				Related RDT&E PEs: 0101213F					
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0101213F	- / 4.494	- / 12.043	- / 19.811	- / 6.781	- / -	- / 6.781	- / -	- / -	- / -	- / -	- / -	- / 43.129	
Procurement													
<i>Modification Item 1 of 1: FRBP Replacement</i>													
A Kits													
Recurring													
FRBP Replacement:INSTALL KITS Group A (Active)	- / -	- / -	- / -	38 / 7.880	- / -	38 / 7.880	22 / 6.008	57 / 9.942	- / -	- / -	- / -	117 / 23.830	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 7.880	- / -	- / 7.880	- / 6.008	- / 9.942	- / -	- / -	- / -	- / 23.830	
<i>Subtotal: FRBP Replacement</i>	- / -	- / -	- / -	- / 7.880	- / -	- / 7.880	- / 6.008	- / 9.942	- / -	- / -	- / -	- / 23.830	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 7.880	- / -	- / 7.880	- / 6.008	- / 9.942	- / -	- / -	- / -	- / 23.830	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.000	- / 2.300	- / 1.600	- / -	- / -	- / 6.900	
A&AS	- / 0.000	- / -	- / -	- / 0.602	- / -	- / 0.602	- / 0.941	- / 0.963	- / 0.985	- / -	- / -	- / 3.491	
Change Orders	- / -	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 0.900	- / 1.100	- / 1.192	- / -	- / -	- / 3.692	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.700	- / -	- / 0.700	- / 0.788	- / 1.075	- / 0.254	- / -	- / -	- / 2.817	
<i>Subtotal: Support</i>	- / 0.000	- / -	- / -	- / 1.802	- / -	- / 1.802	- / 5.629	- / 5.438	- / 4.031	- / -	- / -	- / 16.900	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	0.000	9.682	0.000	9.682	11.637	15.380	4.031	-	-	40.730	

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30MLG / MM III Modifications			Modification Number / Title: 5949 / Fast Rising B-Plug Service Extension Program (FRBP SLEP)	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: FRBP Replacement							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 12			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates			May 2023	Jan 2024	Jan 2025		
Delivery Dates			May 2024	Jan 2025	Jan 2026		
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 117		

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV	P-1 Line Item Number / Title: M65DAG / AGM-65D Maverick
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	71.375	0.238	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	71.613
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	71.375	0.238	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	71.613
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	71.375	0.238	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	-	71.613

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

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

Description:

AGM-65L is the Air Force Laser Maverick missile that aids in striking moving targets traveling at high velocities with proven accuracy and low collateral damage. The missile is a modification of inventory baseline Maverick missiles. The AGM-65L Maverick missiles replaced electro-optical TV seeker components with new Semi-Active Laser (SAL) components. The AGM-65A/B Guidance Control System (GCS) is modified to Laser which is the "L" variant. For the backend, the AGM-65G Center Aft Section (CAS) mates with the laser GCS for a tactical All-up Round (AUR) laser missile. The modification program is with Raytheon Missiles and Defense (RMD). Additional baseline Maverick missiles will be modified to Laser Maverick missiles with accrued Foreign Military Sales (FMS) exchange credits. Funding also covers the movement of Maverick GCS units (AGM-65A/B/G) between the McAlester Army Ammunition Plant & Raytheon Missile Systems (Tucson, AZ). The older Maverick GCS units are upgraded/modified to Laser Maverick seekers.

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

Funding for this exhibit contained in PE 0207313F.

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

Justification:

No FY2023 funding requested.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV	P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)
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ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Items: 0101122F	Other Related Program Elements: 0101122F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	96.241	52.924	46.799	33.778	-	33.778	32.759	33.689	28.618	29.038	36.226	390.072
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	96.241	52.924	46.799	33.778	-	33.778	32.759	33.689	28.618	29.038	36.226	390.072
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	96.241	52.924	46.799	33.778	-	33.778	32.759	33.689	28.618	29.038	36.226	390.072

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

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

Description:

The AGM-86B, Air Launched Cruise Missile (ALCM), is a subsonic, air-to-surface strategic nuclear missile, operational since 1982. Armed with a W80 warhead, it is designed to evade air and ground-based defenses in order to strike targets at any location within any enemy's territory. ALCM was designed for both B-52H internal and external carriage. Funding for this exhibit is contained in PE 0101122F.

Change Summary:

All modification programs have been adjusted to reflect the calendar year 2021 and 2022 program estimates (POE). POEs are based on a combination of actuals, proposals, rough order of magnitude estimates from contractors, and subject matter expert inputs.

FY21 Funding:

Support Equipment carries 7.7M in FY21 funds on reprogramming package FY22_05 PA.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV

P-1 Line Item Number / Title:
MALCBG / Air Launch Cruise Missile (ALCM)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0101122F **Other Related Program Elements:** 0101122F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	_0468 / AGM-86B Low Cost Mods (Other)				- / 2.096	- / -	- / 0.100	- / 0.100	- / -	- / 0.100
P-40a***	860011 / Support Equipment (Reliability & Maintainability)				- / 19.881	- / 19.199	- / 0.126	- / 0.645	- / -	- / 0.645
P-40a***	860101 / AGM-86B Service Life Extension Program 1 (Service Life Extension)				- / 10.507	- / 3.832	- / 4.064	- / 4.028	- / -	- / 4.028
P-40a***	860103 / Warhead Arming Device (WAD) (Service Life Extension)				- / 7.501	- / 0.055	- / 0.010	- / 0.001	- / -	- / 0.001
P-40a***	860105 / Guided Missile Flight Controller (GMFC) (Reliability & Maintainability)				- / 1.395	- / 4.292	- / 8.351	- / 4.577	- / -	- / 4.577
P-40a***	860106 / W-10 Cable (Service Life Extension)				- / 1.290	- / 0.713	- / 0.210	- / 0.206	- / -	- / 0.206
P-40a***	860107 / Fuze Assembly (Service Life Extension)				- / 3.178	- / 3.041	- / 4.593	- / 1.051	- / -	- / 1.051
P-40a***	860108 / Inertial Navigation Element (INE) (Reliability & Maintainability)				- / 21.494	- / 10.315	- / 7.715	- / 4.200	- / -	- / 4.200
P-40a***	860109 / Flight Data Transmitter (Service Life Extension)				- / -	- / -	- / 1.193	- / 3.929	- / -	- / 3.929
P-40a***	860110 / Voltage Regulator (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit (Capability Improvement)		B		- / 6.934	- / 2.915	- / 13.447	- / 9.801	- / 0.000	- / 9.801
P-3a	860104 / Rotary Switch (RS) (Reliability & Maintainability)		B		- / 21.965	- / 8.562	- / 6.990	- / 5.240	- / 0.000	- / 5.240
P-40	Total Gross/Weapon System Cost				- / 96.241	- / 52.924	- / 46.799	- / 33.778	- / -	- / 33.778

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	_0468 / AGM-86B Low Cost Mods (Other)				- / 0.100	- / 0.100	- / 0.100	- / -	- / -	- / 2.596
P-40a***	860011 / Support Equipment (Reliability & Maintainability)				- / 7.809	- / 11.763	- / 7.400	- / 12.425	- / 0.563	- / 79.811
P-40a***	860101 / AGM-86B Service Life Extension Program 1 (Service Life Extension)				- / 3.806	- / 3.902	- / 2.844	- / 0.014	- / -	- / 32.997
P-40a***	860103 / Warhead Arming Device (WAD) (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / 7.567
P-40a***	860105 / Guided Missile Flight Controller (GMFC) (Reliability & Maintainability)				- / 7.356	- / 7.025	- / 7.128	- / 5.729	- / 0.024	- / 45.877
P-40a***	860106 / W-10 Cable (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / 2.419
P-40a***	860107 / Fuze Assembly (Service Life Extension)				- / 0.000	- / -	- / -	- / -	- / -	- / 11.863
P-40a***	860108 / Inertial Navigation Element (INE) (Reliability & Maintainability)				- / 5.088	- / 5.210	- / 5.335	- / 4.303	- / 32.936	- / 96.596
P-40a***	860109 / Flight Data Transmitter (Service Life Extension)				- / 4.016	- / 4.099	- / 4.181	- / 4.937	- / 2.703	- / 25.058
P-40a***	860110 / Voltage Regulator (Reliability & Maintainability)				- / 1.000	- / 1.000	- / 1.000	- / 1.000	- / -	- / 4.000
P-3a	860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit (Capability Improvement)		B		- / 3.024	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 36.121
P-3a	860104 / Rotary Switch (RS) (Reliability & Maintainability)		B		- / 0.560	- / 0.590	- / 0.630	- / 0.630	- / -	- / 45.167

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV

P-1 Line Item Number / Title:
MALCBG / Air Launch Cruise Missile (ALCM)

ID Code (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** 0101122F **Other Related Program Elements:** 0101122F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>	Quantity / Total Cost <i>(Each) / (\$ M)</i>
P-40	Total Gross/Weapon System Cost				- / 32.759	- / 33.689	- / 28.618	- / 29.038	- / 36.226	- / 390.072

*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

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

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

Justification:
This program, P-3A Mod 860110, Voltage Regulator, is a new start.

FY23 Funding will address modifications identified and described in the P40 and associated P-3As.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)	Modification Number / Title: 860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	6.934	2.915	13.447	9.801	0.000	9.801	3.024	0.000	0.000	0.000	0.000	36.121
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	6.934	2.915	13.447	9.801	0.000	9.801	3.024	0.000	0.000	0.000	0.000	36.121
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	6.934	2.915	13.447	9.801	0.000	9.801	3.024	0.000	0.000	0.000	0.000	36.121

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

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

Description:

This program reflects the procurement of Conventional/Air Launched Cruise Missile (CALCM/ALCM) Test Instrumentation Kits (CATIK). CATIKs provide telemetry, tracking, flight termination, and battery power to support missile flight testing while meeting Range Safety Standards. A complete CATIK unit consists of payload doors, a GPS receiver, telemetry transmitter, signal multiplexer, Flight Termination Receiver (FTR), exploding bridge wire (EBW), various wiring harnesses, a battery set (defined below), an encryption/decryption unit (EU/DU), and other generic hardware components. The CATIK is required for flight testing and critical to collecting data for the Nuclear Weapon System Evaluation Program. On average, six CATIKs are consumed each year to support flight tests. This number may fluctuate based on flight test requirements.

Battery sets are procured on the same contract as the CATIK. A set of batteries consists of a Flight Termination Receiver (FTR) battery and a separate battery for the telemetry instrumentation. Battery sets have a two year lead time from receipt of order and are limited to a seven year shelf life. CATIK batteries are represented in the "SUPPORT-EQUIP" line.

The current activity will also procure modified CATIK components and associated equipment to support integration of new Encryption/Decryption chips. The National Security Agency (NSA) is phasing out the old Encryption/Decryption chips due to crypto modernization. To ensure continued support of the ALCM, the Missile Sustainment Division has acquired a waiver from NSA which supports the continued use of current chips out to a future classified date. This modification was initiated with an Aug 2014 award to Boeing for EU/DU replacement. Encryption Equipment is procured along with CATIK but not on a one-for-one basis (the number of Encryption chips procured in a given year varies).

Schedule delays related to the manufacture of new components have caused delivery delays for CATIKs purchased with FY16, FY17, and FY18 funds. Deliveries should be back on schedule by the time CATIKs purchased in FY20 deliver in 2023.

The total objective for the current CATIK production contract is 63 CATIKs and 63 Battery sets. 24 CATIKs and 12 Battery sets have been procured on the Basic and Option 1 (prior years), Option 2 (FY19) was for 12 Battery sets only, Option 3 was for 13 CATIKs(FY2020/FY2021), Options 4 was for 14 CATIKs and 12 Battery sets in FY2022, Option 5 is for 12 CATIKs in FY2023,and Option 6 (FY2024) is for 27 Battery sets only.

CATIK funds will continue to support AFGSC and USSTRATCOM requirements to keep the ALCM viable through 2030.

Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)	Modification Number / Title: 860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit
ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:	
Note: IDECS system moved start year from FY2000 to FY2020, previous prior year funding in FY22PB for FY2000 was \$109.537. Now showing \$6.934, with a prior yr starting in FY2020		
Milestone/Development Status		
CATIK Enterprise effort consists of CATIK units, Encryption units, Battery Sets, and Decryption units to support flight tests through FY28.		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force											Date: April 2021			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)							Modification Number / Title: 860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:							
Models of Systems Affected: AGM-86B				Modification Type: Capability Improvement				Related RDT&E PEs: 0101122F						
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
<i>Modification Item 1 of 1:</i> CATIKS														
B Kits														
Recurring														
CATIKS:EQUIPMENT Group B (Active)	13 / 6.930	- / -	14 / 11.697	12 / 9.801	- / -	12 / 9.801	- / -	- / -	- / -	- / -	- / -	39 / 28.428		
<i>Subtotal: Recurring</i>	- / 6.930	- / -	- / 11.697	- / 9.801	- / -	- / 9.801	- / -	- / -	- / -	- / -	- / -	- / 28.428		
<i>Subtotal: CATIKS</i>	- / 6.930	- / -	- / 11.697	- / 9.801	- / -	- / 9.801	- / -	- / -	- / -	- / -	- / -	- / 28.428		
<i>Subtotal: Procurement, All Modification Items</i>	- / 6.930	- / -	- / 11.697	- / 9.801	- / -	- / 9.801	- / -	- / -	- / -	- / -	- / -	- / 28.428		
Support (All Modification Items)														
PMA - Other Gov't Costs	- / 0.004	- / 2.915	- / -	- / -	- / -	- / -	- / 0.064	- / -	- / -	- / -	- / -	- / 2.983		
SUPPORT-EQUIP	- / -	- / -	12 / 1.750	- / -	- / -	- / -	27 / 2.960	- / -	- / -	- / -	- / -	39 / 4.710		
<i>Subtotal: Support</i>	- / 0.004	- / 2.915	12 / 1.750	- / -	- / -	- / -	27 / 3.024	- / -	- / -	- / -	- / -	39 / 7.693		
Installation														
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
Total														
Total Cost (Procurement + Support + Installation)	6.934	2.915	13.447	9.801	0.000	9.801	3.024	0.000	0.000	0.000	0.000	36.121		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force					Date: April 2021		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)			Modification Number / Title: 860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: CATIKS							
Manufacturer Information							
Manufacturer Name: Boeing Company				Manufacturer Location: Oklahoma City, OK			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 30			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates		Dec 2021	Dec 2022				
Delivery Dates		Jun 2024	Jun 2025				
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 39		

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Exhibit P-3a, Individual Modification: PB 2023 Air Force		Date: April 2021
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)	Modification Number / Title: 860104 / Rotary Switch (RS)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	21.965	8.562	6.990	5.240	0.000	5.240	0.560	0.590	0.630	0.630	-	45.167
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	21.965	8.562	6.990	5.240	0.000	5.240	0.560	0.590	0.630	0.630	-	45.167
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	21.965	8.562	6.990	5.240	0.000	5.240	0.560	0.590	0.630	0.630	-	45.167

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

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

Description:

In FY19, the program segregated the AGM-86B Service Life Extension Program (SLEP-2) components Guided Missile Flight Controller (GFMC), Rotary Switch (RS), and Warhead Arming Device (WAD) into separate efforts. Some of the hardware installations documented under Rotary Switch are for hardware procured under SLEP-2. Ref AGM-86B Service Life Extension Program (SLEP-2) modification number 860002 for information prior to FY19.

AF Long Range Planning required the service life of the ALCM to be extended through 2030. In order to satisfy the life extension requirement, several phases of the service Life Extension program (SLEP) were implemented as a proactive approach. Through studies and surveillance and analysis programs, various components were identified as candidates for replacement due to aging and obsolescence issues before they become fleet-wide problems. This modification executes a remanufacture of the RS. The RS kit will be issued via a Time Compliance Technical Order (TCTO). The remanufactured RS will be available for installation at Hill AFB, Analytical Condition Inspection (ACI) at an annual rate of 24 kits. The RS TCTO kit will also be available to the organizational-level maintenance units for installation at a rate of 70 per year in conjunction with scheduled maintenance activities. This effort is critical to meet Air Force Global Strike Command (AFGSC) and United States Strategic Command (USSTRATCOM) operational needs. Installations are expected to occur FY22-FY27, FY23 concludes all kit buys.

The total objective for the Rotary Switch remanufacture will be 542 units at an estimated unit cost of \$76,000 each. 376 units have been procured in prior years, 94 units will be procured in FY22, and 72 units are included in FY23 completing the procurement of the Rotary Switch.

Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.

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

SLEP funds will continue to support AFGSC and USSTRATCOM requirements to keep the ALCM viable through 2030.

Milestone/Development Status

Engineering studies and analysis programs identified SLEP components for replacement due to aging and obsolescence issues. Solutions to these aging and obsolescence issues were identified through engineering studies conducted by the Original Equipment Manufacturer.

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Exhibit P-3a, Individual Modification: PB 2023 Air Force										Date: April 2021		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)						Modification Number / Title: 860104 / Rotary Switch (RS)		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: AGM-86B				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0101122F				
Financial Plan	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Procurement												
<i>Modification Item 1 of 2: Rotary Switch-Depot</i>												
B Kits												
Recurring												
Rotary Switch-Depot:EQUIPMENT Group B (Active)	72 / 5.022	24 / 1.548	24 / 1.530	12 / 1.570	- / -	12 / 1.570	- / -	- / -	- / -	- / -	- / -	132 / 9.670
<i>Subtotal: Recurring</i>	- / 5.022	- / 1.548	- / 1.530	- / 1.570	- / -	- / 1.570	- / -	- / -	- / -	- / -	- / -	- / 9.670
<i>Subtotal: Rotary Switch-Depot</i>	- / 5.022	- / 1.548	- / 1.530	- / 1.570	- / -	- / 1.570	- / -	- / -	- / -	- / -	- / -	- / 9.670
<i>Modification Item 2 of 2: Rotary Switch-Org/Intermediate</i>												
B Kits												
Recurring												
Rotary Switch-Org/Intermediate:EQUIPMENT Group B (Active)	210 / 14.646	70 / 4.517	70 / 4.500	60 / 3.160	- / -	60 / 3.160	- / -	- / -	- / -	- / -	- / -	410 / 26.823
<i>Subtotal: Recurring</i>	- / 14.646	- / 4.517	- / 4.500	- / 3.160	- / -	- / 3.160	- / -	- / -	- / -	- / -	- / -	- / 26.823
<i>Subtotal: Rotary Switch-Org/Intermediate</i>	- / 14.646	- / 4.517	- / 4.500	- / 3.160	- / -	- / 3.160	- / -	- / -	- / -	- / -	- / -	- / 26.823
<i>Subtotal: Procurement, All Modification Items</i>	- / 19.668	- / 6.065	- / 6.030	- / 4.730	- / -	- / 4.730	- / -	- / -	- / -	- / -	- / -	- / 36.493
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000
PMA - Other Gov't Costs	- / 0.067	- / 0.010	- / 0.030	- / 0.030	- / -	- / 0.030	- / 0.040	- / 0.030	- / 0.030	- / -	- / -	- / 0.237
A&AS	- / 2.230	- / 2.487	- / 0.920	- / 0.470	- / -	- / 0.470	- / 0.510	- / 0.550	- / 0.590	- / 0.620	- / -	- / 8.377
<i>Subtotal: Support</i>	- / 2.297	- / 2.497	- / 0.950	- / 0.500	- / -	- / 0.500	- / 0.550	- / 0.580	- / 0.620	- / 0.620	- / -	- / 8.614
Installation												
<i>Modification Item 1 of 2: Rotary Switch-Depot</i>												
	- / -	- / -	12 / 0.010	24 / 0.010	- / -	24 / 0.010	24 / 0.010	24 / 0.010	24 / 0.010	24 / 0.010	- / -	132 / 0.060
<i>Subtotal: Installation</i>	- / -	- / -	12 / 0.010	24 / 0.010	- / -	24 / 0.010	24 / 0.010	24 / 0.010	24 / 0.010	24 / 0.010	- / -	132 / 0.060
Total												
Total Cost (Procurement + Support + Installation)	21.965	8.562	6.990	5.240	0.000	5.240	0.560	0.590	0.630	0.630	-	45.167

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Exhibit P-3a, Individual Modification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)	Modification Number / Title: 860104 / Rotary Switch (RS)
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 2: Rotary Switch-Depot

Manufacturer Information

Manufacturer Name: Boeing Guidance and Repair Center (BGRC) Manufacturer Location: Heath, OH

Administrative Leadtime (in Months): 0 Production Leadtime (in Months): 41

Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Aug 2021	May 2022	May 2023				
Delivery Dates	Jan 2025	Oct 2025	Oct 2026				

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	12 / 0.010	24 / 0.010	- / -	24 / 0.010	24 / 0.010	12 / 0.005	- / -	- / -	- / -	72 / 0.035
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.005	12 / 0.005	- / -	- / -	24 / 0.010
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.005	12 / 0.005	- / -	24 / 0.010
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.005	- / -	12 / 0.005
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2026	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2027	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	12 / 0.010	24 / 0.010	- / -	24 / 0.010	24 / 0.010	24 / 0.010	24 / 0.010	24 / 0.010	- / -	132 / 0.060

Installation Schedule

	PYS	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	132
Out	0	-	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	132

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Exhibit P-3a, Individual Modification: PB 2023 Air Force						Date: April 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)			Modification Number / Title: 860104 / Rotary Switch (RS)	
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:			
Modification Item 2 of 2: Rotary Switch-Org/Intermediate							
Manufacturer Information							
Manufacturer Name: Boeing Guidance and Repair Center (BGRC)				Manufacturer Location: Heath, OH			
Administrative Leadtime (<i>in Months</i>): 0				Production Leadtime (<i>in Months</i>): 41			
Dates	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Contract Dates	Aug 2021	May 2022	May 2023				
Delivery Dates	Jan 2025	Oct 2025	Oct 2026				
Installation Information							
Method of Implementation (Organic): Org/Intermediate						Installation Quantity: 410	

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 04: Spares and Repair Parts / BSA 10: Missile Spares and Repair Parts

P-1 Line Item Number / Title:
00098A / Msl Sprs/Repair Parts (Initial)

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	13.888	16.212	15.354	-	15.354	6.801	6.890	5.803	5.887	0.000	70.835
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	13.888	16.212	15.354	-	15.354	6.801	6.890	5.803	5.887	0.000	70.835
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	13.888	16.212	15.354	-	15.354	6.801	6.890	5.803	5.887	0.000	70.835

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

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

Description:

FY22 funding totals include \$4.045M requested for Direct War and/or Enduring Requirements.

The FY22 funding request was reduced by \$0.535M to account for the availability of prior year execution balances.

Missile Initial Spares (Budget Program 26) and Replenishment Spares (Budget Program 25) Program Description: MISSILE INITIAL SPARES (Budget Program 26). Missile Initial Spares are required to fill the initial spare parts pipeline or inventory for all new ballistic and non-ballistic missile systems, including modifications, support equipment, and other production categories. Initial spares include peculiar repairable and consumable components, assemblies, and subassemblies that must be available for issue at all levels of supply in time to support and maintain newly fielded end items.

Initial spares are funded in the two program segments described below.

Working Capital Fund (WCF) Spares. Since FY94 most spares are purchased using obligation authority in the WCF. When the spares are delivered, this central procurement account reimburses the WCF. Types of spares in this program segment are Readiness Spares Packages, New Acquisition Spares, Modification Spares, Support Equipment, Other Production, and Consumables.

Exempt Spares. This program segment finances spares that are not purchased through the WCF. The budget authority is a direct cite on the contract. Types of spares in this program segment are Contractor Logistics Support, Simulators/Trainers, Classified Equipment, and Munitions.

The following Major Defense Acquisition Programs (MDAP) have funding in this line:

- AMRAAM, 185
- AIM-9X Blk II, 442
- JASSM, 555

This program has associated Research Development Test and Evaluation funding in PEs 11120F, 11213F, 27161F, 11122F, and 27163F.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 04: Spares and Repair Parts / BSA 10: Missile Spares and Repair Parts

P-1 Line Item Number / Title:
00098A / Msl Sprs/Repair Parts (Initial)

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-18	Missile Spares/Repair Parts (Initial)			185	- / -	- / 13.888	- / 16.212	- / 15.354	- / 0.000	- / 15.354
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 13.888	- / 16.212	- / 15.354	- / -	- / 15.354

Title represents the P-18 Title for Spares.

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

Justification:

AGM-86 Air Launched Cruise Missile (ALCM): The FY23 ALCM funding request for initial spares supports multiple components for the ALCM. Funding supports initial spares for multiple on-going Service Life Extension Programs (SLEPs) to ensure it remains viable until the Long Range Stand Off (LRSO) missile fields. ALCM SLEP projects include SLEP 1 and component SLEPs for the Rotary Switch, Warhead Arming Device, Guided Missile Flight Control, W-10 cable, Fuze Assembly, Inertial Navigation Element and the Flight Data Transmitter.

Joint Air-Surface Standoff Missile (JASSM): The FY23 JASSM missile initial spares program funds are required to fill the initial spares pipeline. Funding will procure critical initial spares for the JASSM and JASSM-ER programs. These parts include items such as seeker assemblies, missile control units (MCU), JASSM Anti-Jam GPS Receivers (JAGR), Electronic Safe and Arm Fuzes (ESAF), Bomb Impact Assessment (BIA) and other components to support and maintain fielded end items. These spares ensure JASSM meets Air Combat Command's materiel availability rates.

Long Range Anti-Ship Missile (LRASM): The FY23 LRASM missile initial spares program funds are required to fill the initial spares pipeline for Lots 1-5. Funding will procure initial spares for the AF LRASM program. These parts include items such radio frequency seeker (RFS) sensor suites, weapons data link (WDL), missile control units (MCU), power electronics control unit assembly (PECU), Electronic Safe and Arm Fuzes (ESAF), and other components to support and maintain fielded end items. These spares ensure LRASM meets Air Combat Command's materiel availability rates.

AIM-120 Advanced Medium Range Air to Air Missile: The FY23 Missile Initial Spares program funds depot level post warranty repairs.

AIM-9 Sidewinder/AIM-9X: FY23 funding for Missile Initial Spares program addresses depot level post warranty repairs and procures initial spares for all variants. These spares are essential for repairs that do not have parts available.

MM III Modifications: The FY23 Missile Initial Spares request funds all Minuteman III spares required to support and maintain the Minuteman III missile system, to include support equipment. Spares support the major sub-systems of the weapon system, comprised of the Re-entry System, Guidance System, Propulsion System, Launch Facility and Launch Control Center. FY23 initial spares will procure initial spares for the FRBP and RVA II programs.

SDB II: FY23 funds are required to establish an initial baseline of spare components to stock the depot to sustain non-warranty repairs and to procure additional spares to prevent pipeline gaps, based on obsolescence, due to future planned configuration changes.

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2023 Air Force					Date: April 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 04 / 10		P-1 Line Item Number / Title: 00098A / Msl Sprs/Repair Parts (Initial)			Title: Missile Spares/Repair Parts (Initial)	
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2021 (\$ M)	FY 2022 (\$ M)	FY 2023 Base (\$ M)	FY 2023 OCO (\$ M)	FY 2023 Total (\$ M)
Initial						
BA 04 - Spares and Repair Parts						
MALCBG / Air Launch Cruise Missile (ALCM)	-	0.328	0.428	0.452	0.000	0.452
MAMRA0 / AMRAAM [185]	-	2.404	3.003	3.165	0.000	3.165
JASSM0 / JOINT AIR-SURFACE STANDOFF MISSILE	-	0.440	0.442	5.667	0.000	5.667
M30MLG / MM III MODIFICATIONS	-	8.855	6.597	1.380	0.000	1.380
MGBSD0 / Ground Based Strategic Deterrent (GBSD)	-	-	2.000	0.000	0.000	0.000
M09HAI / Sidewinder (AIM-9X)	-	1.861	3.742	3.546	0.000	3.546
SDB002 / Small Diameter Bomb (SDB)	-	-	-	1.144	0.000	1.144
Subtotal: Initial	-	13.888	16.212	15.354	0.000	15.354
Total Cost (Initial + Replenishment)	-	13.888	16.212	15.354	0.000	15.354

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 04: Spares and Repair Parts / BSA 10: Missile Spares and Repair Parts
P-1 Line Item Number / Title: 00098K / Msl Sprs/Repair Parts (Replen)

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	84.618	63.547	62.978	-	62.978	84.766	96.216	87.664	89.435	0.000	569.224
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	84.618	63.547	62.978	-	62.978	84.766	96.216	87.664	89.435	0.000	569.224
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	84.618	63.547	62.978	-	62.978	84.766	96.216	87.664	89.435	0.000	569.224

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

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

Description:

Program Description: MISSILE REPLENISHMENT SPARES (Budget Program 25). The Missile Replenishment Spares program funds all ballistic and non-ballistic missile replenishment spares. The replenishment and repair spare parts are needed to support and maintain ballistic and non-ballistic missile systems. Replenishment spares include such items as rocket motors, cables, telemetry packages, and electronic components. Procurements will include spares with long production lead items.

The following Major Defense Acquisition Programs (MDAP) have funding in this line:

- AMRAAM, 185
- SDB II, 439
- AIM-9X Blk II, 442

This program has associated Research Development Test and Evaluation funding in PEs 11120F, 11213F, 27161F, 11122F, and 27163F.

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity:
 3020F: Missile Procurement, Air Force / BA 04: Spares and Repair Parts / BSA 10: Missile Spares and Repair Parts **P-1 Line Item Number / Title:**
 00098K / Msl Sprs/Repair Parts (Replen)

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-18	Msl Sprs/Repair Parts (Replen)				- / -	- / 84.618	- / 63.547	- / 62.978	- / 0.000	- / 62.978
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 84.618	- / 63.547	- / 62.978	- / -	- / 62.978

Title represents the P-18 Title for Spares.

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

Justification:
 AGM-86 Air Launched Cruise Missile (ALCM): The FY23 ALCM funding request for replen spares supports multiple components for the ALCM. Funding supports initial spares for multiple on-going Service Life Extension Programs (SLEPs) to ensure it remains viable until the Long Range Stand Off (LRSO) missile fields. ALCM SLEP projects include SLEP 1 and component SLEPs for the Rotary Switch, Warhead Arming Device, Guided Missile Flight Control, W-10 cable, Fuze Assembly, Inertial Navigation Element and the Flight Data Transmitter.

MM III Modifications: FY23 replenishment spares funding will specifically procure items such as batteries ordnance, cables, antenna kits, telemetry packages, torque motors, and other electronic components supporting weapons system operations and operational test launches.

AIM-9 Sidewinder/AIM-9X: FY23 funding for Missile Replenishment Spares program funds repairs for CATMs and AURs. These repairs include items such as live and inert batteries, Control Actuation System (CAS) and Inert Measurement Units.

HARM - FY23 funding is critical to the procurement of High-speed Anti-Radiation Missile (HARM) spare parts in support of Raytheon Missiles Defense System Factory repair of the Control and Guidance Sections for the AGM-88B/C/F All-Up-Rounds. AGM-88 missile is critical for the Suppression of Enemy Air Defenses. Additionally, funding is used for the procurement of Telemetry Sections used in Combat Air Forces Pilot Training and New Threat Analysis.

SDB I - FY23 Spares funds are required to support SDB I Guided Test Vehicles (GTV) modernization for the Weapon System Evaluation Program (WSEP). Spares funding will procure major sub-components such as flight termination and telemetry kits, and flight test recorders, to replace obsolete parts and convert GBU-39/B's into SDB I GTVs.

Hellfire - FY23 HELLFIRE missile replenishment spares funding is used to purchase parts not covered by warranty. The parts are used to support Industrial Base missile repairs completed by Lockheed Martin.

AIM-120 Advanced Medium Range Air to Air Missile: The FY23 Missile Replenishment Spares program funds AMRAAM field unit repairs and intermediate level repairs on Captive Air Training Missiles (CATM). These repairs include such items as filter rectifiers, harness assemblies, wings and fins.

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2023 Air Force					Date: April 2021	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 04 / 10		P-1 Line Item Number / Title: 00098K / Msl Sprs/Repair Parts (Replen)			Title: Msl Sprs/Repair Parts (Replen)	
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years <i>(\$ M)</i>	FY 2021 <i>(\$ M)</i>	FY 2022 <i>(\$ M)</i>	FY 2023 Base <i>(\$ M)</i>	FY 2023 OCO <i>(\$ M)</i>	FY 2023 Total <i>(\$ M)</i>
Replenishment						
BA 04 - Spares and Repair Parts						
M65DAG / AGM-65D Maverick	-	1.597	-	0.000	0.000	0.000
MALCBG / AGM-86 Air Launched Cruise Missile (ALCM)	-	2.303	2.369	2.508	0.000	2.508
M88AAG / AGM-88A Tactical AGM Missile (HARM)	-	8.206	8.164	5.523	0.000	5.523
M09BA1 / AIM-9 Sidewinder	-	5.906	5.854	6.046	0.000	6.046
M09HAI / AIM-9X	-	5.722	5.756	4.657	0.000	4.657
M30MLG / LGM-30 MINUTEMAN (MM III)	-	51.421	31.889	35.953	0.000	35.953
MAMRA0 / MAMRA0 - AIM-120 Advanced Medium Range Air to Air Missile (AMRAAM)	-	0.868	0.873	0.925	0.000	0.925
PRDTA2 / Predator Hellfire Missile	-	0.310	0.313	0.000	0.000	0.000
SDB000 / Small Diameter Bomb	-	8.285	8.329	7.366	0.000	7.366
Subtotal: Replenishment	-	84.618	63.547	62.978	0.000	62.978
Total Cost (Initial + Replenishment)	-	84.618	63.547	62.978	0.000	62.978

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 04: Spares and Repair Parts / BSA 10: Missile Spares and Repair Parts

P-1 Line Item Number / Title:
000999 / Initial Spares/Repair Parts

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

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	4.045	0.000	-	0.000	0.000	0.000	0.000	0.000	-	4.045
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	4.045	0.000	-	0.000	0.000	0.000	0.000	0.000	-	4.045
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	4.045	0.000	-	0.000	0.000	0.000	0.000	0.000	-	4.045

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

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

Description:

Program Description: MISSILE REPLENISHMENT SPARES (Budget Program 25). The Missile Replenishment Spares program funds all ballistic and non-ballistic missile replenishment spares. The replenishment and repair spare parts are needed to support and maintain ballistic and non-ballistic missile systems. Replenishment spares include such items as rocket motors, cables, telemetry packages, and electronic components. Procurements will include spares with long production lead items.

Justification:

No FY23 Funding Requested

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Exhibit P-40, Budget Line Item Justification: PB 2023 Air Force **Date:** April 2021

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 4: Special Programs	P-1 Line Item Number / Title: MSPPRG / Special Update Programs
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	23.501	30.352	36.933	-	36.933	183.605	195.407	315.133	513.714	-	1,298.645
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	23.501	30.352	36.933	-	36.933	183.605	195.407	315.133	513.714	-	1,298.645
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	23.501	30.352	36.933	-	36.933	183.605	195.407	315.133	513.714	-	1,298.645

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

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

Description:

This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

Justification:

This program is reported in accordance with Title 10, United States Code, Section 119(a)(1) in the Special Access Program Annual Report to Congress.

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