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

February 2015



Air Force

Justification Book Volume 1 of 1

Missile Procurement, Air Force

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

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Appropriation Language
Fiscal Year (FY) 2016 President's Budget Submission
Missile Procurement, Air Force

For construction, procurement, and modification of missiles, spacecraft, 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, \$2,987,045,000, and overseas contingency operations, \$289,142,000 to remain available for obligations until September 30, 2018.

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

28 Jan 2015

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

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28 Jan 2015

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

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 (Dollars in Thousands)

28 Jan 2015

Appropriation: Missile Procurement, Air Force

Budget Activity -----	FY 2014 (Base & OCO) -----	FY 2015 Base Enacted -----	FY 2015 OCO Enacted -----	FY 2015 Total Enacted -----
01. Ballistic Missiles	38,940	80,005		80,005
02. Other Missiles	760,436	873,084	136,189	1,009,273
03. Modification of Inservice Missiles	30,829	52,002		52,002
04. Spares and Repair Parts	72,080	87,366		87,366
05. Other Support	3,407,928	3,533,558		3,533,558
Total Missile Procurement, Air Force	4,310,213	4,626,015	136,189	4,762,204

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 (Dollars in Thousands)

28 Jan 2015

Appropriation: Missile Procurement, Air Force

Budget Activity -----	FY 2016 Base -----	FY 2016 OCO -----	FY 2016 Total -----
01. Ballistic Missiles	94,040		94,040
02. Other Missiles	1,588,577	283,422	1,871,999
03. Modification of Inservice Missiles	85,372	5,720	91,092
04. Spares and Repair Parts	48,523		48,523
05. Other Support	1,170,533		1,170,533
Total Missile Procurement, Air Force	2,987,045	289,142	3,276,187

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28 Jan 2015

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO)		FY 2015 Base Enacted		FY 2015 OCO Enacted		FY 2015 Total Enacted		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		38,940		80,005				80,005	U
Total Ballistic Missiles				38,940		80,005				80,005	
Budget Activity 02: Other Missiles											

Tactical											
2	JASSM	A	187	271,151							U
3	Joint Air-Surface Standoff Missile				215	329,158			215	329,158	U
4	Sidewinder (AIM-9X)	A	225	105,190	303	129,121			303	129,121	U
5	AMRAAM	A	183	318,415	200	329,600			200	329,600	U
6	Predator Hellfire Missile	A	624	64,928	381	43,878	1117	125,469	1498	169,347	U
7	Small Diameter Bomb	A			144	40,578	268	10,720	412	51,298	U
Industrial Facilities											
8	Industr'l Preparedns/Pol Prevention	A		752		749				749	U
Total Other Missiles				760,436		873,084		136,189		1,009,273	
Budget Activity 03: Modification of Inservice Missiles											

Class IV											
9	MM III Modifications	A		19,085		28,422				28,422	U
10	AGM-65D Maverick	A		276		276				276	U
11	AGM-88A Harm	A		580		297				297	U

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 (Dollars in Thousands)

28 Jan 2015

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016 Base		FY 2016 OCO		FY 2016 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Ballistic Missiles									

Missile Replacement Equipment - Ballistic									
1	Missile Replacement Eq-Ballistic	A		94,040			94,040		U
				-----		-----	-----		
Total Ballistic Missiles				94,040			94,040		
Budget Activity 02: Other Missiles									

Tactical									
2	JASSM	A							U
3	Joint Air-Surface Standoff Missile		360	440,578			360	440,578	U
4	Sidewinder (AIM-9X)	A	506	200,777			506	200,777	U
5	AMRAAM	A	262	390,112			262	390,112	U
6	Predator Hellfire Missile	A	3756	423,016	1811	280,902	5567	703,918	U
7	Small Diameter Bomb	A	1942	133,697	63	2,520	2005	136,217	U
Industrial Facilities									
8	Industr'l Preparedns/Pol Prevention	A		397				397	U
				-----		-----	-----		
Total Other Missiles				1,588,577		283,422		1,871,999	
Budget Activity 03: Modification of Inservice Missiles									

Class IV									
9	MM III Modifications	A		50,517				50,517	U
10	AGM-65D Maverick	A		9,639		5,720		15,359	U
11	AGM-88A Harm	A		197				197	U

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Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO)		FY 2015 Base Enacted		FY 2015 OCO Enacted		FY 2015 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
12	Air Launch Cruise Missile (ALCM)	A		6,888		16,083				16,083	U
13	Small Diameter Bomb	A		4,000		6,924				6,924	U
Total Modification of Inservice Missiles				30,829		52,002				52,002	
Budget Activity 04: Spares and Repair Parts											

Missile Spares and Repair Parts											
14	Initial Spares/Repair Parts	A		72,080		87,366				87,366	U
Total Spares and Repair Parts				72,080		87,366				87,366	
Budget Activity 05: Other Support											

Space Programs											
15	Advanced EHF	A		328,350		298,462				298,462	U
16	Wideband Gapfiller Satellites(Space)	A		33,998		36,071				36,071	U
17	GPS III Space Segment	A	2	(480,578)	1	(280,565)			1	(280,565)	U
	Less: Advance Procurement (PY)			(-82,507)		(-52,167)				(-52,167)	U
				398,071		228,398				228,398	
18	GPS III Space Segment Advance Procurement (CY)			52,167		87,000				87,000	U
19	Spaceborne Equip (COMSEC)	A		5,244		13,401				13,401	U
20	Global Positioning (Space)	A		55,895		49,887				49,887	U
21	Def Meteorological Sat Prog(Space)	A		80,542		77,855				77,855	U
22	Evolved Expendable Launch Capability			559,413		687,735				687,735	U
23	Evolved Expendable Launch Veh(Space)	A	5	807,991	4	732,003			4	732,003	U

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Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016 Base		FY 2016 OCO		FY 2016 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
12	Air Launch Cruise Missile (ALCM)	A		25,019				25,019	U
13	Small Diameter Bomb	A							U
Total Modification of Inservice Missiles				85,372		5,720		91,092	
Budget Activity 04: Spares and Repair Parts									

Missile Spares and Repair Parts									
14	Initial Spares/Repair Parts	A		48,523				48,523	U
Total Spares and Repair Parts				48,523				48,523	
Budget Activity 05: Other Support									

Space Programs									
15	Advanced EHF	A							U
16	Wideband Gapfiller Satellites(Space)	A							U
17	GPS III Space Segment	A							U
	Less: Advance Procurement (PY)								U
18 GPS III Space Segment Advance Procurement (CY)									U
19	Spaceborne Equip (COMSEC)	A							U
20	Global Positioning (Space)	A							U
21	Def Meteorological Sat Prog(Space)	A							U
22	Evolved Expendable Launch Capability								U
23	Evolved Expendable Launch Veh(Space)	A							U

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Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO)		FY 2015 Base Enacted		FY 2015 OCO Enacted		FY 2015 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
24	SBIR High (Space)	A		524,587		444,567				444,567	U
	Special Programs										
28	Special Update Programs	A		24,371		60,179				60,179	U
999	Classified Programs			537,299		818,000				818,000	U
	Total Other Support			3,407,928		3,533,558				3,533,558	
	Total Missile Procurement, Air Force			4,310,213		4,626,015		136,189		4,762,204	

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Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016 Base		FY 2016 OCO		FY 2016 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
24	SBIR High (Space)	A							U
	Special Programs								
28	Special Update Programs	A		276,562			276,562		U
999	Classified Programs			893,971			893,971		U
	Total Other Support			1,170,533			1,170,533		
	Total Missile Procurement, Air Force			2,987,045		289,142	3,276,187		

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Appropriation: Space Procurement, Air Force

Budget Activity -----	FY 2014 (Base & OCO) -----	FY 2015 Base Enacted -----	FY 2015 OCO Enacted -----	FY 2015 Total Enacted -----
01. Space Procurement, Air Force				
Total Space Procurement, Air Force				

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Total Obligational Authority
(Dollars in Thousands)

28 Jan 2015

Appropriation: Space Procurement, Air Force

Budget Activity -----	FY 2016 Base -----	FY 2016 OCO -----	FY 2016 Total -----
01. Space Procurement, Air Force	2,584,061		2,584,061
Total Space Procurement, Air Force	2,584,061		2,584,061

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28 Jan 2015

Appropriation: 3021F Space Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO)		FY 2015 Base Enacted		FY 2015 OCO Enacted		FY 2015 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Space Procurement, Air Force											

Space Programs											
1	Advanced EHF	A									U
2	Wideband Gapfiller Satellites(Space)	A									U
3	GPS III Space Segment	A									U
	Less: Advance Procurement (PY)										U
			-----		-----		-----		-----		
4	Spaceborne Equip (COMSEC)	A									U
5	Global Positioning (Space)	A									U
6	Def Meteorological Sat Prog(Space)	A									U
7	Evolved Expendable Launch Capability										U
8	Evolved Expendable Launch Veh(Space)	A									U
9	SBIR High (Space)	A									U
			-----		-----		-----		-----		
Total Space Procurement, Air Force			-----		-----		-----		-----		
Total Space Procurement, Air Force			-----		-----		-----		-----		

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28 Jan 2015

Appropriation: 3021F Space Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016 Base		FY 2016 OCO		FY 2016 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Space Procurement, Air Force									

Space Programs									
1	Advanced EHF	A		333,366				333,366	U
2	Wideband Gapfiller Satellites(Space)	A		53,476				53,476	U
3	GPS III Space Segment	A	1	(286,218)			1	(286,218)	U
	Less: Advance Procurement (PY)			(-87,000)				(-87,000)	U
				-----		-----		-----	
				199,218				199,218	
4	Spaceborne Equip (COMSEC)	A		18,362				18,362	U
5	Global Positioning (Space)	A		66,135				66,135	U
6	Def Meteorological Sat Prog(Space)	A		89,351				89,351	U
7	Evolved Expendable Launch Capability			571,276				571,276	U
8	Evolved Expendable Launch Veh(Space)	A	5	800,201			5	800,201	U
9	SBIR High (Space)	A		452,676				452,676	U
				-----		-----		-----	
Total Space Procurement, Air Force				2,584,061				2,584,061	
Total Space Procurement, Air Force				-----		-----		-----	
Total Space Procurement, Air Force				2,584,061				2,584,061	

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Appropriation: Procurement of Ammunition, Air Force

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

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28 Jan 2015

Appropriation: Procurement of Ammunition, Air Force

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

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28 Jan 2015

Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO)		FY 2015 Base Enacted		FY 2015 OCO Enacted		FY 2015 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Ammunition											

Rockets											
1	Rockets	A		12,914		4,696				4,696	U
Cartridges											
2	Cartridges	A		138,336		128,621		2,469		131,090	U
Bombs											
3	Practice Bombs	A		25,872		30,098				30,098	U
4	General Purpose Bombs	A		241,198		148,614		56,293		204,907	U
5	Massive Ordnance Penetrator (MOP)										U
6	Joint Direct Attack Munition	A	10415	250,469	789	111,400	3544	117,039	4333	228,439	U
Other Items											
7	Cad/Pad	A		35,837		29,989				29,989	U
8	Explosive Ordnance Disposal (EOD)	A		7,531		6,925				6,925	U
9	Spares and Repair Parts	A		499		494				494	U
10	Modifications	A		480		1,610				1,610	U
11	Items Less Than \$5 Million	A		7,353		4,237				4,237	U
Flares											
12	Flares	A		63,634		84,160		19,136		103,296	U
Fuzes											
13	Fuzes	A		81,041		84,417		24,848		109,265	U
Total Ammunition				865,164		635,261		219,785		855,046	

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28 Jan 2015

Appropriation: 3011F Procurement of Ammunition, Air Force

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

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Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO)		FY 2015 Base Enacted		FY 2015 OCO Enacted		FY 2015 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Weapons											

Small Arms											
14	Small Arms	A	18,839		24,648				24,648		U
			-----		-----		-----		-----		
Total Weapons			18,839		24,648				24,648		
			-----		-----		-----		-----		
Total Procurement of Ammunition, Air Force			884,003		659,909		219,785		879,694		

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Appropriation: 3011F Procurement of Ammunition, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016 Base		FY 2016 OCO		FY 2016 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Weapons									

Small Arms									
14	Small Arms	A		60,097				60,097	U
			-----		-----		-----		
Total Weapons				60,097				60,097	
			-----		-----		-----		
Total Procurement of Ammunition, Air Force				1,758,843		228,874		1,987,717	

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Appropriation: Other Procurement, Air Force

Budget Activity -----	FY 2014 (Base & OCO) -----	FY 2015 Base Enacted -----	FY 2015 OCO Enacted -----	FY 2015 Total Enacted -----
02. Vehicular Equipment	125,441	124,555	33,743	158,298
03. Electronics and Telecommunications Equip	1,130,141	1,402,185	26,274	1,428,459
04. Other Base Maintenance and Support Equip	17,897,952	15,220,080	3,547,509	18,767,589
05. Spares and Repair Parts	21,096	32,813		32,813
Total Other Procurement, Air Force	19,174,630	16,779,633	3,607,526	20,387,159

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Appropriation: Other Procurement, Air Force

Budget Activity -----	FY 2016 Base -----	FY 2016 OCO -----	FY 2016 Total -----
02. Vehicular Equipment	217,579		217,579
03. Electronics and Telecommunications Equip	1,810,006	35,418	1,845,424
04. Other Base Maintenance and Support Equip	16,184,990	3,824,546	20,009,536
05. Spares and Repair Parts	59,863		59,863
Total Other Procurement, Air Force	18,272,438	3,859,964	22,132,402

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Appropriation: 3080F Other Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO)		FY 2015 Base Enacted		FY 2015 OCO Enacted		FY 2015 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Vehicular Equipment											

Passenger Carrying Vehicles											
1	Passenger Carrying Vehicles	A		2,048		6,528				6,528	U
Cargo and Utility Vehicles											
2	Medium Tactical Vehicle	A		1,000		7,639				7,639	U
3	Cap Vehicles	A		946		1,700				1,700	U
4	Items Less Than \$5 Million	A		10,331		11,027		3,000		14,027	U
Special Purpose Vehicles											
5	Security And Tactical Vehicles	A		2,000		4,447				4,447	U
6	Items Less Than \$5 Million	A		5,308		693		1,878		2,571	U
Fire Fighting Equipment											
7	Fire Fighting/Crash Rescue Vehicles	A		23,794		10,152				10,152	U
Materials Handling Equipment											
8	Items Less Than \$5 Million	A		13,360		15,108		5,131		20,239	U
Base Maintenance Support											
9	Runway Snow Remov & Cleaning Equip	A		8,054		10,212		1,734		11,946	U
10	Items Less Than \$5 Million	A		58,600		57,049		22,000		79,049	U
Total Vehicular Equipment				125,441		124,555		33,743		158,298	

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 02: Vehicular Equipment									

Passenger Carrying Vehicles									
1	Passenger Carrying Vehicles	A		8,834			8,834		U
Cargo and Utility Vehicles									
2	Medium Tactical Vehicle	A		58,160			58,160		U
3	Cap Vehicles	A		977			977		U
4	Items Less Than \$5 Million	A		12,483			12,483		U
Special Purpose Vehicles									
5	Security And Tactical Vehicles	A		4,728			4,728		U
6	Items Less Than \$5 Million	A		4,662			4,662		U
Fire Fighting Equipment									
7	Fire Fighting/Crash Rescue Vehicles	A		10,419			10,419		U
Materials Handling Equipment									
8	Items Less Than \$5 Million	A		23,320			23,320		U
Base Maintenance Support									
9	Runway Snow Remov & Cleaning Equip	A		6,215			6,215		U
10	Items Less Than \$5 Million	A		87,781			87,781		U
Total Vehicular Equipment				217,579			217,579		

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Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO)		FY 2015 Base Enacted		FY 2015 OCO Enacted		FY 2015 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 03: Electronics and Telecommunications Equip											

Comm Security Equipment(Comsec)											
11	Comsec Equipment	A		77,795		95,833			95,833		U
12	Modifications (COMSEC)	A		726		1,363			1,363		U
Intelligence Programs											
13	Intelligence Training Equipment	A		2,789		2,832			2,832		U
14	Intelligence Comm Equipment	A		39,875		32,329			32,329		U
15	Mission Planning Systems	A		11,915		15,649			15,649		U
Electronics Programs											
16	Air Traffic Control & Landing Sys	A		32,118		28,400			28,400		U
17	National Airspace System	A		11,652		6,291			6,291		U
18	Battle Control System - Fixed	A		14,412		2,704			2,704		U
19	Theater Air Control Sys Improvements	A		4,561		50,033			50,033		U
20	Weather Observation Forecast	A		16,171		16,309			16,309		U
21	Strategic Command And Control	A		22,723		139,984			139,984		U
22	Cheyenne Mountain Complex	A		23,431		20,101			20,101		U
23	Drug Interdiction Spt	A		32,768							U
24	Integrated Strat Plan & Analy Network (ISPAN)					9,060			9,060		U
Spcl Comm-Electronics Projects											
25	General Information Technology	A		32,776		39,095		3,857	42,952		U
26	AF Global Command & Control Sys	A		13,559		9,098			9,098		U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base		FY 2016 OCO		FY 2016 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 03: Electronics and Telecommunications Equip									

Comm Security Equipment(Comsec)									
11	Comsec Equipment	A		136,998				136,998	U
12	Modifications (COMSEC)	A		677				677	U
Intelligence Programs									
13	Intelligence Training Equipment	A		4,041				4,041	U
14	Intelligence Comm Equipment	A		22,573				22,573	U
15	Mission Planning Systems	A		14,456				14,456	U
Electronics Programs									
16	Air Traffic Control & Landing Sys	A		31,823				31,823	U
17	National Airspace System	A		5,833				5,833	U
18	Battle Control System - Fixed	A		1,687				1,687	U
19	Theater Air Control Sys Improvements	A		22,710				22,710	U
20	Weather Observation Forecast	A		21,561				21,561	U
21	Strategic Command And Control	A		286,980				286,980	U
22	Cheyenne Mountain Complex	A		36,186				36,186	U
23	Drug Interdiction Spt	A							U
24	Integrated Strat Plan & Analy Network (ISPAN)			9,597				9,597	U
Spcl Comm-Electronics Projects									
25	General Information Technology	A		27,403		3,953		31,356	U
26	AF Global Command & Control Sys	A		7,212				7,212	U

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Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO)		FY 2015 Base Enacted		FY 2015 OCO Enacted		FY 2015 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
27	Mobility Command and Control	A		9,384		11,462				11,462	U
28	Air Force Physical Security System	A		43,238		37,426				37,426	U
29	Combat Training Ranges	A		18,431		59,634				59,634	U
30	Minimum Essential Emergency Comm N	A				1,289				1,289	U
31	C3 Countermeasures	A		11,551		11,508		900		12,408	U
32	Integrated Personnel and Pay System	A									U
33	GCSS-AF Fos	A		12,675		3,670				3,670	U
34	Defense Enterprise Accounting and Mgmt System	A				15,298				15,298	U
35	Theater Battle Mgt C2 System	A		7,387		9,561				9,561	U
36	Air & Space Operations Ctr-WPN SYS	A		26,880		25,701				25,701	U
37	Air Operations Center (AOC) 10.2										U
Air Force Communications											
38	Information Transport Systems	A		67,582		96,936				96,936	U
39	AFNET	A		81,533		90,487				90,487	U
40	Voice Systems	A		1,138							U
41	Joint Communications Support Element (JCSE)	A									U
42	USCENTCOM	A		18,108		16,342				16,342	U
Space Programs											
43	Family of Beyond Line-of-Sight Terminals	A				57,074				57,074	U
44	Space Based Ir Sensor Pgm Space	A		28,608		26,100				26,100	U
45	Navstar GPS Space	A		2,053		2,065				2,065	U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base		FY 2016 OCO		FY 2016 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
27	Mobility Command and Control	A		11,062		2,000		13,062	U
28	Air Force Physical Security System	A		131,269				131,269	U
29	Combat Training Ranges	A		33,606				33,606	U
30	Minimum Essential Emergency Comm N	A		5,232				5,232	U
31	C3 Countermeasures	A		7,453				7,453	U
32	Integrated Personnel and Pay System	A		3,976				3,976	U
33	GCSS-AF Fos	A		25,515				25,515	U
34	Defense Enterprise Accounting and Mgmt System	A		9,255				9,255	U
35	Theater Battle Mgt C2 System	A		7,523				7,523	U
36	Air & Space Operations Ctr-WPN SYS	A		12,043				12,043	U
37	Air Operations Center (AOC) 10.2			24,246				24,246	U
Air Force Communications									
38	Information Transport Systems	A		74,621				74,621	U
39	AFNET	A		103,748				103,748	U
40	Voice Systems	A							U
41	Joint Communications Support Element (JCSE)	A		5,199				5,199	U
42	USCENTCOM	A		15,780		10,000		25,780	U
Space Programs									
43	Family of Beyond Line-of-Sight Terminals	A		79,592				79,592	U
44	Space Based Ir Sensor Pgm Space	A		90,190				90,190	U
45	Navstar GPS Space	A		2,029				2,029	U

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Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO)		FY 2015 Base Enacted		FY 2015 OCO Enacted		FY 2015 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
46	Nudet Detection Sys Space	A		4,415		4,656				4,656	U
47	AF Satellite Control Network Space	A		19,863		54,436				54,436	U
48	Spacelift Range System Space	A		90,806		62,538				62,538	U
49	Milsatcom Space	A		101,533		41,355		19,547		60,902	U
50	Space Mods Space	A		35,639		31,706				31,706	U
51	Counterspace System	A		8,041		59,439				59,439	U
Organization and Base											
52	Tactical C-E Equipment	A		69,657		50,077				50,077	U
53	Combat Survivor Evader Locater	A		8,428							U
54	Radio Equipment	A		12,341		14,846				14,846	U
55	CCTV/Audiovisual Equipment	A		7,949		3,635				3,635	U
56	Base Comm Infrastructure	A		63,118		89,519		1,970		91,489	U
Modifications											
57	Comm Elect Mods	A		42,512		56,344				56,344	U
Total Electronics and Telecommunications Equip				1,130,141		1,402,185		26,274		1,428,459	
Budget Activity 04: Other Base Maintenance and Support Equip											
Personal Safety & Rescue Equip											
58	Night Vision Goggles	A		3,640		12,577		765		13,342	U
59	Items Less Than \$5 Million	A		24,566		31,209				31,209	U
Depot Plant+Mtrls Handling Eq											
60	Mechanized Material Handling Equip	A		6,157		7,670				7,670	U

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Line No	Item Nomenclature	Ident Code	FY 2016 Base		FY 2016 OCO		FY 2016 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
46	Nudet Detection Sys Space	A		5,095				5,095	U
47	AF Satellite Control Network Space	A		76,673				76,673	U
48	Spacelift Range System Space	A		113,275				113,275	U
49	Milsatcom Space	A		35,495				35,495	U
50	Space Mods Space	A		23,435				23,435	U
51	Counterspace System	A		43,065				43,065	U
Organization and Base									
52	Tactical C-E Equipment	A		77,538		4,065		81,603	U
53	Combat Survivor Evader Locater	A							U
54	Radio Equipment	A		8,400				8,400	U
55	CCTV/Audiovisual Equipment	A		6,144				6,144	U
56	Base Comm Infrastructure	A		77,010		15,400		92,410	U
Modifications									
57	Comm Elect Mods	A		71,800				71,800	U
Total Electronics and Telecommunications Equip				1,810,006		35,418		1,845,424	
Budget Activity 04: Other Base Maintenance and Support Equip									
Personal Safety & Rescue Equip									
58	Night Vision Goggles	A		2,370		3,580		5,950	U
59	Items Less Than \$5 Million	A		79,623		3,407		83,030	U
Depot Plant+Mtrls Handling Eq									
60	Mechanized Material Handling Equip	A		7,249				7,249	U

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			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Base Support Equipment											
61	Base Procured Equipment	A		10,994		14,125		2,030		16,155	U
62	Engineering and EOD Equipment	A		15,736		16,744		99,590		116,334	U
63	Productivity Capital Investment	A		1,227		2,495				2,495	U
64	Mobility Equipment	A		77,859		13,073		107,361		120,434	U
65	Items Less Than \$5 Million	A		1,954		5,462		10,975		16,437	U
Special Support Projects											
67	DARP RC135	A		20,577		24,710				24,710	U
68	DCGS-AF	A		115,620		206,743				206,743	U
70	Special Update Program	A		451,385		537,370				537,370	U
71	Defense Space Reconnaissance Prog.	A		145,409		77,898		6,100		83,998	U
999	Classified Programs			17,022,828		14,270,004		3,320,688		17,590,692	U
Total Other Base Maintenance and Support Equip				17,897,952		15,220,080		3,547,509		18,767,589	
Budget Activity 05: Spares and Repair Parts											

Spares and Repair Parts											
73	Spares and Repair Parts	A		21,096		32,813				32,813	U
Total Spares and Repair Parts				21,096		32,813				32,813	
Total Other Procurement, Air Force				19,174,630		16,779,633		3,607,526		20,387,159	

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Line No	Item Nomenclature	Ident Code	FY 2016 Base		FY 2016 OCO		FY 2016 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Base Support Equipment									
61	Base Procured Equipment	A		9,095				9,095	U
62	Engineering and EOD Equipment	A		17,866		46,790		64,656	U
63	Productivity Capital Investment	A							U
64	Mobility Equipment	A		61,850		400		62,250	U
65	Items Less Than \$5 Million	A		30,477		9,800		40,277	U
Special Support Projects									
67	DARP RC135	A		25,072				25,072	U
68	DCGS-AF	A		183,021				183,021	U
70	Special Update Program	A		629,371				629,371	U
71	Defense Space Reconnaissance Prog.	A		100,663		28,070		128,733	U
999	Classified Programs			15,038,333		3,732,499		18,770,832	U
Total Other Base Maintenance and Support Equip				16,184,990		3,824,546		20,009,536	
Budget Activity 05: Spares and Repair Parts									

Spares and Repair Parts									
73	Spares and Repair Parts	A		59,863				59,863	U
Total Spares and Repair Parts				59,863				59,863	
Total Other Procurement, Air Force				18,272,438		3,859,964		22,132,402	

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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			
1	MM Trainer Upgrades		No
2	MINUTEMAN MEECN MODIFICATION		No
3	ICBM Cryptography Upgrade Increment II		No
4	MM LCC Block Upgrades		No
5	MM III Auto Switching Unit (ASU)		No
6	Airborne Launch Control System Replacement Increment I		No
7	Trainer Hardware/Software Upgrades (THSU)		No
8	LGM-30G Fast Rising B-Plug Phase II (FRBP II)		No
9	LGM-30G Cadmium Replacement Support Equipment (CaDRP)		No
10	LGM-30G A-Vault Cable Modification (ACM)		No
11	LGM-30G Blast Valve Control Panel (BVCP)		No
12	LGM-30G Launch Control Center Break-In-Kit (LCCB)		No
13	LOW COST MODIFICATIONS		No
P-3a Individual Modifications			
Modification Number	Modification Title		Applies to Multiple Models
5915	ICBM Fuze Modernization		No
5928	T-9 Launch Facility Trainer Conversion (T-9)		No
5932	LGM-30G Remote Visual Assessment Phase II (RVA II)		No

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

Model:	LGM-30G	
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
5934	LGM-30G Flight Test Telemetry and Termination System (FT3)	No

Model:	AGM-65B Maverick	
Modification P-40a Aggregated Items Title:	AGM-65D Maverick	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1	AGM-65 B TO H UPGRADES	No
2	AGM-65 Maverick	No

Model:	AGM-88	
Modification P-40a Aggregated Items Title:	AGM-88A Harm	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1	HARM Control Section Modification	No

Model:	AGM-86B	
Modification P-40a Aggregated Items Title:	Air Launch Cruise Missile (ALCM)	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1	LOW COST MODIFICATIONS	No
2	AGM-86B TRAINERS	No
3	AGM-86B SERVICE LIFE EXTENSION PROGRAM	No

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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
4	Electronic System Test Set	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
2783	AGM-86B SERVICE LIFE EXTENSION PROGRAM 2	No
860004	CATIK PAYLOAD DOOR	No
860006	Service Life Extension Program 3	No

Model:	BRU-61/A	
Modification P-40a Aggregated Items Title:	Small Diameter Bomb	
Item Number	Item Title	Applies to Multiple Models
Uncategorized		
1	GBU-39/B SDB I - BRU-61/A Dual Power Modifications	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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Exhibit P-40a										
MM Trainer Upgrades	-	-	10.983	-	-	-	-	-	-	-
MINUTEMAN MEECN MODIFICATION	56.558	16.499	11.770	-	-	-	-	-	-	-
ICBM Cryptography Upgrade Increment II	-	-	-	-	-	-	53.820	7.571	20.279	17.701
MM LCC Block Upgrades	-	-	1.020	-	-	-	-	16.004	19.738	-
MM III Auto Switching Unit (ASU)	-	-	-	-	-	-	-	8.400	17.200	18.200
Airborne Launch Control System Replacement Increment I	-	-	-	-	-	-	-	-	16.080	17.570
Trainer Hardware/Software Upgrades (THSU)	-	-	-	-	-	-	0.386	4.669	-	-
LGM-30G Fast Rising B-Plug Phase II (FRBP II)	-	-	-	-	-	-	-	0.350	4.000	7.965
LGM-30G Cadmium Replacement Support Equipment (CaDRP)	-	-	-	-	-	-	1.003	1.930	-	-
LGM-30G A-Vault Cable Modification (ACM)	-	-	-	0.350	-	0.350	0.493	-	-	-
LGM-30G Blast Valve Control Panel (BVCP)	-	-	-	0.847	-	0.847	1.196	-	-	-
LGM-30G Launch Control Center Break-In-Kit (LCCB)	-	-	-	-	-	-	1.635	-	-	-
LOW COST MODIFICATIONS	25.685	2.586	-	3.649	-	3.649	3.750	0.500	0.500	0.500
AGM-65 B TO H UPGRADES	-	0.276	0.276	-	-	-	-	-	-	-
AGM-65 Maverick	-	-	-	9.639	5.720	15.359	0.284	0.290	0.294	0.299
HARM Control Section Modification	71.101	0.580	0.297	0.197	-	0.197	-	-	-	-
LOW COST MODIFICATIONS	1.288	0.025	0.101	0.130	-	0.130	0.100	0.100	0.100	0.100
AGM-86B TRAINERS	2.251	-	-	-	-	-	-	-	-	-
AGM-86B SERVICE LIFE EXTENSION PROGRAM	5.538	1.244	1.245	0.015	-	0.015	0.015	-	-	-
Electronic System Test Set	4.991	-	-	-	-	-	-	-	-	-

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Air Force • President's Budget Submission FY 2016 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
GBU-39/B SDB I - BRU-61/A Dual Power Modifications	4.976	4.000	6.924	-	-	-	-	-	-	-
Exhibit P-3a										
ICBM Fuze Modernization	-	-	4.649	13.700	-	13.700	17.387	6.372	9.934	12.323
T-9 Launch Facility Trainer Conversion (T-9)	-	-	-	17.931	-	17.931	-	-	-	-
LGM-30G Remote Visual Assessment Phase II (RVA II)	-	-	-	6.351	-	6.351	10.677	12.812	7.051	9.518
LGM-30G Flight Test Telemetry and Termination System (FT3)	-	-	-	7.689	-	7.689	41.674	3.247	-	-
AGM-86B SERVICE LIFE EXTENSION PROGRAM 2	13.004	5.619	11.470	10.572	-	10.572	11.080	11.345	4.531	0.037
CATIK PAYLOAD DOOR	87.452	-	3.267	10.059	-	10.059	0.790	-	9.027	-
Service Life Extension Program 3	-	-	-	4.243	-	4.243	3.800	3.950	4.178	3.757
Totals (Total Obligation Authority)										
Total Obligation Authority	272.844	30.829	52.002	85.372	5.720	91.092	148.090	77.540	112.912	87.970

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ACRONYMS

GENERAL ACRONYMS

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

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FOC	- Fully Operational Capability
FLTS	- Flight Line Test Set
FPIF	- Fixed Price Incentive Firm
FPIS	- Fixed Price Incentive Fee, Successive Targets
FY	- Fiscal Year
GANS	- Global Access Navigation & Safety
GATM	- Global Air Traffic Management
GFE	- Government Furnished Equipment
GPS	- Global Positioning System
GSE	- Ground Support Equipment
IOC	- Initial Operating Capability
IPE	- Increased Performance Engine
JPALS	- Joint Precision Approach and Landing System
LANTIRN	- Low Altitude Navigation and Targeting Infra Red System for Night
MAIS	- Materiel Acquisition Integrated System
MDAP	- Major Defense Acquisition Program
METS	- Mobile Electronic Test Stations
MYP	- Multiyear Procurement
MSIP	- Multi-Stage Improvement Program
NAVWAR	- Navigation Warfare
NMC Rate	- Not Mission Capable Rate
OPF	- Operational Flight Program
OT&E	- Operational Test and Evaluation
OWRM	- Other War Reserve Material
PAGEL	- Priced Aerospace Ground Equipment List
PB	- President's Budget
PGSE	- Peculiar Ground Support Equipment
PMC	- Procurement Method Code
PNO	- Acquisition Program Number (MDAP Codes)
PR	- Purchase Request
PRCP	- Program Resource Collection Process
PTT	- Part Task Trainer
PY	- Prior Year
R&M	- Reliability and Maintainability
RAA	- Required Asset Availability
RDT&E	- Research, Development, Test and Evaluation

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RWR	- Radar Warning Receiver
ROM	- Rough Order of Magnitude
SAM	- Surface-to-Air Missile
SS	- Sole Source
SOF	- Special Operation Force
TAF	- Tactical Air Force
TCAS	- Traffic Collision Alert and Avoidance System
TEWS	- Tactical Electronic Warfare System
TISS	- TEWS Intermediate Support System
TOA	- Total Obligation Authority
WMP	- War Mobilization Plan
WRM	- War Reserve Material
WST	- Weapon System Trainer
UAV	- Unmanned Aerial Vehicle
UHF	- Ultra High Frequency
USA	- United States of America
VHSIC	- Very High Speed Integrated Circuit

BASE / ORGANIZATIONAL ACRONYMS

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

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

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

CONTRACT METHOD / TYPE ACRONYMS

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

CONTRACTED BY ACRONYMS

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

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

IDENTIFICATION CODES

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

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

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:	Other Related Program Elements: 0101213F
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	12.602	38.940	80.005	94.040	-	94.040	78.796	69.459	58.072	53.249	-	485.163
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	12.602	38.940	80.005	94.040	-	94.040	78.796	69.459	58.072	53.249	-	485.163
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	12.602	38.940	80.005	94.040	-	94.040	78.796	69.459	58.072	53.249	-	485.163

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

Initial Spares <i>(\$ in Millions)</i>	-	-	4.240	-	-	-	-	-	-	-	-	4.240
Flyaway Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program funds replacement organizational and intermediate level support equipment for all out-of-production missile systems, including ballistic, tactical and other missile weapon 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.

Funding for this exhibit is contained in PE 0202834F and PE 0101213F.

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

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:** **Other Related Program Elements:** 0101213F

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
RS/RV SE Rep Pgm (RSERP)	P-40a		- / -	- / -	- / -	- / 6.318	- / -	- / 6.318
BALLISTIC MISSILE ITEMS LESS THAN \$5 MILLION	P-40a		- / -	- / 4.588	- / 8.814	- / 7.739	- / -	- / 7.739
Guidance Data Acquisition System	P-40a		- / -	- / 12.008	- / -	- / -	- / -	- / -
HAC/RMPE Test Support Equipment	P-40a		- / 2.828	- / 4.970	- / -	- / -	- / -	- / -
MM POWER PANELS	P-40a		- / 0.000	- / 7.474	- / 7.400	- / 7.400	- / -	- / 7.400
Payload Transporter Replacement	P-40a		- / -	- / -	- / -	- / 4.000	- / -	- / 4.000
Reentry Field Support Equipment	P-40a		- / 0.000	- / -	- / 54.798	- / 45.116	- / -	- / 45.116
Telemetry Integrated Processing System (TIPS)	P-40a		- / 9.774	- / 9.900	- / -	- / -	- / -	- / -
Transporter Erector Replacement Program (TERP)	P-40a		- / -	- / -	- / 8.993	- / 23.467	- / -	- / 23.467
Total Gross/Weapon System Cost			- / 12.602	- / 38.940	- / 80.005	- / 94.040	- / -	- / 94.040

*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 add due to rounding.

Justification:

FY16 funding provides replacement support equipment items for an aging inventory of equipment which has become increasingly more 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 program supports missile weapon systems such as the Minuteman (LGM-30), Advanced Medium Range Air-to-Air Missile (AIM-120), Air Launched Cruise Missile (AGM-86A), and High-Speed Anti-Radiation Missile (AGM-88A). Requirements are jointly determined by Headquarters United States Air Force (HQ USAF), Air Force Materiel Command (AFMC), Air Combat Command (ACC) and Air Force Global Strike Command (AFGSC) and are based on established allowance standards.

Items requested in FY16 are displayed on the attached P-40A. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3										P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic					Aggregated Items Title: RS/RV SE Rep Pgm (RSERP)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Reentry System/ Reentry Vehicle Support Equipment Replacement	A		-	-	-	-	-	-	-	-	-	0.790	8	6.318	-	-	-	0.790	8	6.318
<i>Subtotal: Uncategorized</i>			-	-	-	-	-	-	-	-	-	-	-	6.318	-	-	-	-	-	6.318
Total			-	-	-	-	-	-	-	-	-	-	-	6.318	-	-	-	-	-	6.318

Remarks:

Government costs for FY16 is \$0.368. RSERP is a new start for FY16. FY16 funding will be used to purchase long lead items. The long lead items are needed to procure Versatile Depot Automatic Test Stations (VDATS), forming the backbone of RSERP.

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

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Cable Test Set	A		-	-	-	0.124	2	0.248	-	-	-	-	-	-	-	-	-	-	-	-
Various	A		-	-	-	0.520	1	0.520	-	-	-	-	-	7.739	-	-	-	-	-	7.739
Personal Alarm System	A		-	-	-	0.080	5	0.400	-	-	-	-	-	-	-	-	-	-	-	-
Software Maintenance Integration Complex Network	A		-	-	-	3.000	1	3.000	-	-	-	-	-	-	-	-	-	-	-	-
Gyro Compass Assembly Tester	A		-	-	-	0.320	1	0.320	-	-	-	-	-	-	-	-	-	-	-	-
Fiber Optic Lens Test Set	A		-	-	-	0.100	1	0.100	-	-	-	-	-	-	-	-	-	-	-	-
Code System Media (CSM)	A		-	-	-	-	-	-	0.051	35	1.777	-	-	-	-	-	-	-	-	-
TSU - Portable AC	A		-	-	-	-	-	-	0.327	14	4.580	-	-	-	-	-	-	-	-	-
Bunker Winch Replacement	A		-	-	-	-	-	-	0.351	7	2.457	-	-	-	-	-	-	-	-	-
Squadron Data Simulator	A		-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Uncategorized</i>			-	-	-	-	-	4.588	-	-	8.814	-	-	7.739	-	-	-	-	-	7.739
Total			-	-	-	-	-	4.588	-	-	8.814	-	-	7.739	-	-	-	-	-	7.739

Remarks:
No funding requested in FY16.

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3	P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic	Aggregated Items Title: Guidance Data Acquisition System
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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Guidance Data Acquisition System	A		-	-	-	12.008	1	12.008	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Uncategorized</i>			-	-	-	-	-	12.008	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	-	-	-	12.008	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:
No FY16 funding requested.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3						P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic									Aggregated Items Title: HAC/RMPE Test Support Equipment				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
HAC/RMPE Test Equipment	A		0.189	15	2.828	0.331	15	4.970	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Uncategorized</i>			-	-	2.828	-	-	4.970	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	2.828	-	-	4.970	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

HAC/RMPE test equipment procures several different support equipment items required to sustain the system. Unit costs vary by year reflecting the variety of support equipment items and their various unit prices.

No FY16 funding requested.

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3	P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic	Aggregated Items Title: MM POWER PANELS
---	---	---

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Power Panels	A		-	-	0.000	-	-	7.474	-	-	7.400	-	-	7.400	-	-	-	-	-	7.400
<i>Subtotal: Uncategorized</i>			-	-	0.000	-	-	7.474	-	-	7.400	-	-	7.400	-	-	-	-	-	7.400
Total			-	-	0.000	-	-	7.474	-	-	7.400	-	-	7.400	-	-	-	-	-	7.400

Remarks:

The Power Panel Replacement Program modernizes the antiquated power distribution system to improve reliability and sustainability at each of the three wings, Malmstrom, Minot, FE warren. Installation of the power panels requires extensive demolition of existing components, relocation of all electrical equipment and installation of the new equipment.

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

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Payload Transporter Replacement	A		-	-	-	-	-	-	-	-	-	-	-	4.000	-	-	-	-	-	4.000
<i>Subtotal: Uncategorized</i>			-	-	-	-	-	-	-	-	-	-	-	4.000	-	-	-	-	-	4.000
Total			-	-	-	-	-	-	-	-	-	-	-	4.000	-	-	-	-	-	4.000

Remarks:

Payload Transporter Replacement (PTR) intial costs in FY16-17 include special tools for manufacturing, procurement of long lead items, and lifetime buys of selected components.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3							P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic								Aggregated Items Title: Reentry Field Support Equipment				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
RFSE Suites	A		-	-	0.000	-	-	-	18.266	3	54.798	11.279	4	45.116	-	-	-	11.279	4	45.116
<i>Subtotal: Uncategorized</i>			-	-	0.000	-	-	-	-	-	54.798	-	-	45.116	-	-	-	-	-	45.116
Total			-	-	0.000	-	-	-	-	-	54.798	-	-	45.116	-	-	-	-	-	45.116

Remarks:

Final units will be procured in FY16.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3					P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic										Aggregated Items Title: Telemetry Integrated Processing System (TIPS)				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Telemetry Integrated Processing System (TIPS)	A		9.774	1	9.774	9.900	1	9.900	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Uncategorized</i>			-	-	9.774	-	-	9.900	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	9.774	-	-	9.900	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:
No FY16 funding requested.

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

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Transporter Erector Replacement Program (TERP)	A		-	-	-	-	-	-	4.497	2	8.993	3.911	6	23.467	-	-	-	3.911	6	23.467
<i>Subtotal: Uncategorized</i>			-	-	-	-	-	-	-	-	8.993	-	-	23.467	-	-	-	-	-	23.467
Total			-	-	-	-	-	-	-	-	8.993	-	-	23.467	-	-	-	-	-	23.467

Remarks:

The development contract, awarded 22 May 2013, included 5 pre-priced annual production option. The first of these options will be exercised in FY15 after successful completion of first article qualification.

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** 654515 / JASSM

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

Line Item MDAP/MAIS Code: 555 **Item MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	1,807	187	-	-	-	-	-	-	-	-	-	1,994
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,645.200	271.151	-	-	-	-	-	-	-	-	-	1,916.351
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	1,645.200	271.151	-	-	-	-	-	-	-	-	-	1,916.351
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,645.200	271.151	-	-	-	-	-	-	-	-	-	1,916.351

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.910	1.450	-	-	-	-	-	-	-	-	-	0.961

Description:

The Joint Air-to-Surface Standoff Missile (JASSM) is designated as a ACAT 1C program as of September 8, 2014. 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. There are two variants of the JASSM missile: JASSM baseline and JASSM extended range (JASSM-ER). Aircraft integration for the baseline missile is complete on the B-52H, F-16 (Block 50), B-1, B-2, and F-15E. Objective aircraft include the F-16 (Block 40) and F-35. Aircraft integration for JASSM-ER is complete on the B-1B. Objective aircraft are the B-52H, F16C/D (Block 50/52), B-2, F-16C/D (Block25-42), F-15E, and the F-35. JASSM and JASSM-ER (Lots 1-10) have a 15-year warranty and are stored in their container. Lots 11 and out will be under Contractor Logistics Support (CLS). Initial Spares are required to fill the inventory as JASSM transitions from a 15 year warranty to a CLS, CLS is scheduled to start in FY16. Procurement quantities are estimates only and fall within a range of quantities based on negotiations for each specific lot contract. Total procurement of 4,900 includes JASSM baseline missiles(2,034) and JASSM-ER missiles(2,866).

The JASSM program consists of two separable increments, the JASSM baseline and the JASSM extended range (JASSM-ER) - both with separate milestone decision points. Each version is broken out in P-5, P-5A, and P-21 in this document. The quantity, flyaway unit cost and weapon system unit cost lines reflect JASSM PE (0207325F) only, which is a combination of both JASSM baseline and JASSM-ER. JASSM baseline is in Full Rate Production (FRP) and when awarded, FY15 will be the 13th production lot. The Defense Acquisition Executive (DAE) approved JASSM-ER for Full Rate Production (FRP) November 20, 2014 and Air Combat Command (ACC) approved JASSM-ER for Initial Operational Capability (IOC) December 2, 2014. JASSM-ER LRIP 1 has been delivered, JASSM-ER LRIP 2, LRIP 3, and LRIP 4 are on contract totaling 160 JASSM-ER LRIP missiles. FY 2015 will be the fifth Lot for JASSM-ER. The JASSM program plans to use some funds to evaluate Diminishing Manufacturing Sources (DMS) material shortages, obsolescence issues, and reliability improvement, including flight testing.

Funding for this exhibit is contained in PE 0207325F.

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** 654515 / JASSM

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

Line Item MDAP/MAIS Code: 555 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
654515 JASSM Baseline	P-5, P-5a, P-21		1,707 / 1,461.885	127 / 144.532	- / -	- / -	- / -	- / -
654515 JASSM ER	P-5, P-5a, P-21		100 / 183.315	60 / 126.619	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			1,807 / 1,645.200	187 / 271.151	- / -	- / -	- / -	- / -

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
654515 JASSM Baseline	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	1,834 / 1,606.417
654515 JASSM ER	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	160 / 309.934
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	1,994 / 1,916.351

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

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

Justification:
 No FY16 funding requested in this line. FY16 funding is justified in line item JASSM0.

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** 654515 / JASSM **Item Number / Title [DODIC]:**
- / 654515 JASSM Baseline

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

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	1,707	127	-	-	-	-	-	-	-	-	-	1,834
Gross/Weapon System Cost (\$ in Millions)	1,461.885	144.532	-	-	-	-	-	-	-	-	-	1,606.417
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,461.885	144.532	-	-	-	-	-	-	-	-	-	1,606.417
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,461.885	144.532	-	-	-	-	-	-	-	-	-	1,606.417

(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)	0.856	1.138	-	-	-	-	-	-	-	-	-	0.876

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - 654515 JASSM Baseline Cost																		
Recurring Cost																		
JASSM Baseline All-Up-Round ^(†)	0.671	1,707	1,144.806	0.843	127	107.060	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Change Order	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,144.806</i>	-	-	<i>107.060</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway - 654515 JASSM Baseline Cost</i>	-	-	<i>1,144.806</i>	-	-	<i>107.060</i>	-	-	-	-	-	-	-	-	-	-	-	-
Support - 654515 JASSM Baseline Cost																		
Program Management Administration (PMA)-A&AS	-	-	4.727	-	-	2.756	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Administration (PMA)-Gov't Cost	-	-	22.249	-	-	1.216	-	-	-	-	-	-	-	-	-	-	-	-
Test Support/Reliability/Obsolescence	-	-	172.803	-	-	23.870	-	-	-	-	-	-	-	-	-	-	-	-
JPO Technical Support	-	-	29.589	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prime Contractor Support	-	-	87.711	-	-	9.630	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - 654515 JASSM Baseline Cost</i>	-	-	<i>317.079</i>	-	-	<i>37.472</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	0.856	1,707	1,461.885	1.138	127	144.532	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** 654515 / JASSM **Item Number / Title [DODIC]:**
- / 654515 JASSM Baseline

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

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - 654515 JASSM Baseline Cost																		
Recurring Cost																		
JASSM Baseline All-Up-Round ^(t)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.683	1,834	1,251.866
Engineering Change Order	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,251.866
<i>Subtotal: Flyaway - 654515 JASSM Baseline Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,251.866
Support - 654515 JASSM Baseline Cost																		
Program Management Administration (PMA)-A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.483
Program Management Administration (PMA)-Gov't Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.465
Test Support/Reliability/Obsolescence	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	196.673
JPO Technical Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.589
Prime Contractor Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97.341
<i>Subtotal: Support - 654515 JASSM Baseline Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	354.551
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.876	1,834	1,606.417

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: 654515 / JASSM	Item Number / Title [DODIC]: - / 654515 JASSM Baseline
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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
JASSM Baseline All-Up-Round ^(†)		2014	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Dec 2013	Apr 2016	127	0.843	N	Jul 2012	Jul 2012

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** 654515 / JASSM **Item Number / Title [DODIC]:**
- / 654515 JASSM Baseline

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
JASSM Baseline All-Up-Round																															
Prior Years Deliveries: 1707																															
1	2014	AF		127	-	127			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	127
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** 654515 / JASSM **Item Number / Title [DODIC]:** - / 654515 JASSM Baseline

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
JASSM Baseline All-Up-Round																																
Prior Years Deliveries: 1707																																
1	2014	AF		127	-	127	-	-	-	-	-	-	-	8	8	8	8	8	10	21	20	10	10	9	7							-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Air Force	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: 654515 / JASSM	Item Number / Title [DODIC]: - / 654515 JASSM Baseline
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MFR Ref #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Lockheed Martin - Troy, Alabama	175	360	360	-	-	-	-	-	-	3	28	31

"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-5, Cost Analysis: PB 2016 Air Force										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2					P-1 Line Item Number / Title: 654515 / JASSM					Item Number / Title [DODIC]: - / 654515 JASSM ER			

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	100	60	-	-	-	-	-	-	-	-	-	160
Gross/Weapon System Cost <i>(\$ in Millions)</i>	183.315	126.619	-	-	-	-	-	-	-	-	-	309.934
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	183.315	126.619	-	-	-	-	-	-	-	-	-	309.934
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	183.315	126.619	-	-	-	-	-	-	-	-	-	309.934

(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>	1.833	2.110	-	-	-	-	-	-	-	-	-	1.937

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - 654515 JASSM ER Cost																		
Recurring Cost																		
JASSM Extended Range (ER) All-Up-Round ^(†)	1.667	100	166.687	1.512	60	90.706	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Change Orders	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	166.687	-	-	90.706	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway - 654515 JASSM ER Cost</i>	-	-	166.687	-	-	90.706	-	-	-	-	-	-	-	-	-	-	-	-
Support - 654515 JASSM ER Cost																		
JPO Technical Support	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Administration (PMA)-A&AS	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Administration (PMA)-Gov't Cost	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Test Support/Reliability/Obsolescence	-	-	13.782	-	-	35.913	-	-	-	-	-	-	-	-	-	-	-	-
Prime Contractor Support	-	-	2.846	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - 654515 JASSM ER Cost</i>	-	-	16.628	-	-	35.913	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** 654515 / JASSM **Item Number / Title [DODIC]:** - / 654515 JASSM ER

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

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	1.833	100	183.315	2.110	60	126.619	-	-	-	-	-	-	-	-	-	-	-	-

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)

Flyaway - 654515 JASSM ER Cost

Recurring Cost																		
JASSM Extended Range (ER) All-Up-Round ^(t)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.609	160	257.393
Engineering Change Orders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	257.393
<i>Subtotal: Flyaway - 654515 JASSM ER Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	257.393

Support - 654515 JASSM ER Cost

JPO Technical Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Administration (PMA)-A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Administration (PMA)-Gov't Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Test Support/Reliability/Obsolescence	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.695
Prime Contractor Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.846
<i>Subtotal: Support - 654515 JASSM ER Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52.541
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.937	160	309.934

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: 654515 / JASSM	Item Number / Title [DODIC]: - / 654515 JASSM ER
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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
JASSM Extended Range (ER) All- Up-Round ^(†)		2014	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Dec 2013	Apr 2016	60	1.512	N	Jul 2013	Jul 2012

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** 654515 / JASSM **Item Number / Title [DODIC]:** - / 654515 JASSM ER

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
JASSM Extended Range (ER) All-Up-Round																															
Prior Years Deliveries: 100																															
1	2014	AF		60	-	60			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** 654515 / JASSM **Item Number / Title [DODIC]:** - / 654515 JASSM ER

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
JASSM Extended Range (ER) All-Up-Round																															
Prior Years Deliveries: 100																															
1	2014	AF		60	-	60	-	-	-	-	-	-	7	7	7	7	7	8	8	9									-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: 654515 / JASSM	Item Number / Title [DODIC]: - / 654515 JASSM ER
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MFR Ref #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Lockheed Martin - Troy, Alabama	175	360	360	-	-	-	-	-	-	3	28	31

"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 2016 Air Force **Date:** February 2015

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:** **Other Related Program Elements:**

Line Item MDAP/MAIS Code: 442 **Item MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	215	360	-	360	360	360	360	360	891	2,906
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	329.158	440.578	-	440.578	435.718	444.433	452.593	460.749	1,476.585	4,039.814
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	-	-	329.158	440.578	-	440.578	435.718	444.433	452.593	460.749	1,476.585	4,039.814
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	329.158	440.578	-	440.578	435.718	444.433	452.593	460.749	1,476.585	4,039.814

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	0.806	-	0.806	0.370	0.426	0.433	0.441	1.256	3.732
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	1.531	1.224	-	1.224	1.210	1.235	1.257	1.280	1.657	1.390

Description:

The Joint Air-to-Surface Standoff Missile (JASSM) is an ACAT 1C program as of September 8, 2014. 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. There are two variants of the JASSM missile: JASSM baseline and JASSM extended range (JASSM-ER). Aircraft integration for the baseline missile is complete on the B-52H, F-16 (Block 50), B-1, B-2, and F-15E. Objective aircraft include the F-16 (Block 40) and F-35. Aircraft integration for JASSM-ER is complete on the B-1B. Objective aircraft are the B-52H, F16C/D (Block 50/52), B-2, F-16C/D (Block25-42), F-15E, and the F-35. JASSM and JASSM-ER (Lots 1-10) have a 15-year warranty and are stored in their container. Lots 11 and out will be under Contractor Logistics Support (CLS). Initial Spares are required to fill the inventory as JASSM transitions from a 15 year warranty to a Contractor Logistics Support (CLS). CLS is scheduled to start in FY16. Procurement quantities are estimates only and fall within a range of quantities based on negotiations for each specific lot contract. Total procurement of 4,900 includes JASSM baseline missiles(2,034) and JASSM-ER missiles(2,866).

The JASSM program consists of two separable increments, the JASSM baseline and the JASSM extended range (JASSM-ER) - both with separate milestone decision points. Each version is broken out in P-5, P-5A, and P-21 in this document. The quantity, flyaway unit cost and weapon system unit cost lines reflect JASSM PE (0207325F) only, which is a combination of both JASSM baseline and JASSM-ER. JASSM baseline is in Full Rate Production (FRP) and when awarded, FY15 will be the 13th production lot. The Defense Acquisition Executive (DAE) approved JASSM-ER for Full Rate Production (FRP) November 20, 2014 and Air Combat Command (ACC) approved JASSM-ER for Initial Operational Capability (IOC) December 2, 2014. JASSM-ER LRIP 1 has been delivered, JASSM-ER LRIP 2, LRIP 3, and LRIP 4 are on contract totaling 160 JASSM-ER LRIP missiles. FY 2015 will be the fifth Lot for JASSM-ER. The JASSM program plans to use some funds to evaluate Diminishing Manufacturing Sources (DMS) material shortages, obsolescence issues, and reliability improvement, including flight testing.

Funding for this exhibit is contained in PE 0207325F.

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

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:** **Other Related Program Elements:**

Line Item MDAP/MAIS Code: 442 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
JASSM0 JASSM Baseline	P-5, P-5a, P-21		- / -	- / -	100 / 129.944	100 / 73.582	- / -	100 / 73.582
JASSM0 JASSM ER	P-5, P-5a, P-21		- / -	- / -	115 / 199.214	260 / 366.996	- / -	260 / 366.996
Total Gross/Weapon System Cost			- / -	- / -	215 / 329.158	360 / 440.578	- / -	360 / 440.578
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
JASSM0 JASSM Baseline	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	200 / 203.526
JASSM0 JASSM ER	P-5, P-5a, P-21		360 / 435.718	360 / 444.433	360 / 452.593	360 / 460.749	891 / 1,476.585	2,706 / 3,836.288
Total Gross/Weapon System Cost			360 / 435.718	360 / 444.433	360 / 452.593	360 / 460.749	891 / 1,476.585	2,906 / 4,039.814

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

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

Justification:

In FY16 the Air Force will award the lot 14 production contract which will include 100 JASSM baseline missiles, and the second FRP for 260 JASSM-ER missiles. Continue reliability initiatives including Weapon System Evaluation Program (WSEP) flight testing of current production missiles. Continue evaluating Diminishing Manufacturing Sources (DMS) material shortages.

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Exhibit P-5, Cost Analysis: PB 2016 Air Force							Date: February 2015					
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) :							MDAP/MAIS Code:				
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	100	100	-	100	-	-	-	-	-	200
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	129.944	73.582	-	73.582	-	-	-	-	-	203.526
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	-	-	129.944	73.582	-	73.582	-	-	-	-	-	203.526
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	129.944	73.582	-	73.582	-	-	-	-	-	203.526

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	0.471	-	0.471	-	-	-	-	-	0.471
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	1.299	0.736	-	0.736	-	-	-	-	-	1.018

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Flyaway End Item Cost																		
Recurring Cost																		
JASSM Baseline All-UP-Round ^(†)	-	-	-	-	-	-	1.032	100	103.199	0.634	100	63.382	-	-	-	0.634	100	63.382
Engineering Change Orders	-	-	-	-	-	-	-	-	1.676	-	-	1.447	-	-	-	-	-	1.447
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	104.875	-	-	64.829	-	-	-	-	-	64.829
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	-	-	-	-	-	-	104.875	-	-	64.829	-	-	-	-	-	64.829
Support - Support End Item Cost																		
Program Management Administration (PMA)-A&AS	-	-	-	-	-	-	-	-	1.412	-	-	0.747	-	-	-	-	-	0.747
Program Management Administration (PMA)-Gov't Cost	-	-	-	-	-	-	-	-	0.690	-	-	0.365	-	-	-	-	-	0.365
Test Support/Reliability/Obsolescence	-	-	-	-	-	-	-	-	21.043	-	-	4.925	-	-	-	-	-	4.925
Prime Contractor Support	-	-	-	-	-	-	-	-	1.924	-	-	2.716	-	-	-	-	-	2.716
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	25.069	-	-	8.753	-	-	-	-	-	8.753
Gross/Weapon System Cost	-	-	-	-	-	-	1.299	100	129.944	0.736	100	73.582	-	-	-	0.736	100	73.582

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

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) : **MDAP/MAIS Code:**

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Flyaway End Item Cost																		
Recurring Cost																		
JASSM Baseline All-UP-Round ^(t)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.833	200	166.581
Engineering Change Orders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.123
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	169.704
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	169.704
Support - Support End Item Cost																		
Program Management Administration (PMA)-A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.159
Program Management Administration (PMA)-Gov't Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.055
Test Support/Reliability/Obsolescence	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.968
Prime Contractor Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.640
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33.822
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.018	200	203.526

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

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
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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
JASSM Baseline All-UP-Round ^(†)		2015	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Jun 2015	Mar 2017	100	1.032	Y		Jan 2014
JASSM Baseline All-UP-Round ^(†)		2016	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Jun 2016	Dec 2017	100	0.634	Y		Jan 2014

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017														Fiscal Year 2018														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017														Calendar Year 2018													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L			
JASSM Baseline All-UP-Round																																		
	1	2015	AF	100	-	100	-	-	-	-	-	-	-	-	12	12	12	12	12	12	12	12	12	12	12	4					-			
	1	2016	AF	100	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10	5	5	10
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019												Fiscal Year 2020													
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	B A L
JASSM Baseline All-UP-Round																															
	1	2015	AF	100	100	-																									
	1	2016	AF	100	90	10	5		5																						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force	Date: February 2015
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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]: - / JASSM0 JASSM Baseline
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MFR Ref #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Lockheed Martin - Troy, Alabama	175	360	360	-	-	-	-	-	-	9	18	27

"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-5, Cost Analysis: PB 2016 Air Force								Date: February 2015				
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 ER				

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:					
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	115	260	-	260	360	360	360	360	891	2,706
Gross/Weapon System Cost (\$ in Millions)	-	-	199.214	366.996	-	366.996	435.718	444.433	452.593	460.749	1,476.585	3,836.288
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	199.214	366.996	-	366.996	435.718	444.433	452.593	460.749	1,476.585	3,836.288
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	199.214	366.996	-	366.996	435.718	444.433	452.593	460.749	1,476.585	3,836.288

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

Initial Spares (\$ in Millions)	-	-	-	0.335	-	0.335	0.370	0.426	0.433	0.441	1.256	3.261
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	1.732	1.412	-	1.412	1.210	1.235	1.257	1.280	1.657	1.418

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Flyaway End Item Cost																		
Recurring Cost																		
JASSM Extended Range (ER) All-Up-Round ^(f)	-	-	-	-	-	-	1.283	115	147.510	1.255	260	326.313	-	-	-	1.255	260	326.313
Engineering Change Orders	-	-	-	-	-	-	-	-	6.099	-	-	4.420	-	-	-	-	-	4.420
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	153.609	-	-	330.733	-	-	-	-	-	330.733
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	-	-	-	-	-	-	153.609	-	-	330.733	-	-	-	-	-	330.733
Support - Support End Item Cost																		
Program Management Administration (PMA)-A&AS	-	-	-	-	-	-	-	-	1.224	-	-	1.941	-	-	-	-	-	1.941
Program Management Administration (PMA)-Gov't Cost	-	-	-	-	-	-	-	-	0.598	-	-	0.948	-	-	-	-	-	0.948
Test Support/Reliability/Obsolescence	-	-	-	-	-	-	-	-	36.089	-	-	26.311	-	-	-	-	-	26.311
Prime Contractor Support	-	-	-	-	-	-	-	-	7.694	-	-	7.063	-	-	-	-	-	7.063
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	45.605	-	-	36.263	-	-	-	-	-	36.263
Gross/Weapon System Cost	-	-	-	-	-	-	1.732	115	199.214	1.412	260	366.996	-	-	-	1.412	260	366.996

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

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 ER

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

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Flyaway End Item Cost																		
Recurring Cost																		
JASSM Extended Range (ER) All-Up-Round ^(†)	1.092	360	392.973	1.103	360	396.997	1.122	360	403.955	1.141	360	410.886	1.189	891	1,059.363	1.160	2,706	3,137.997
Engineering Change Orders	-	-	2.510	-	-	6.025	-	-	6.058	-	-	6.109	-	-	16.222	-	-	47.443
<i>Subtotal: Recurring Cost</i>	-	-	395.483	-	-	403.022	-	-	410.013	-	-	416.995	-	-	1,075.585	-	-	3,185.440
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	395.483	-	-	403.022	-	-	410.013	-	-	416.995	-	-	1,075.585	-	-	3,185.440
Support - Support End Item Cost																		
Program Management Administration (PMA)-A&AS	-	-	2.742	-	-	2.797	-	-	2.853	-	-	2.910	-	-	8.595	-	-	23.062
Program Management Administration (PMA)-Gov't Cost	-	-	1.339	-	-	1.366	-	-	1.393	-	-	1.421	-	-	4.367	-	-	11.432
Test Support/Reliability/Obsolescence	-	-	25.982	-	-	26.669	-	-	27.332	-	-	27.981	-	-	350.891	-	-	521.255
Prime Contractor Support	-	-	10.172	-	-	10.579	-	-	11.002	-	-	11.442	-	-	37.147	-	-	95.099
<i>Subtotal: Support - Support End Item Cost</i>	-	-	40.235	-	-	41.411	-	-	42.580	-	-	43.754	-	-	401.000	-	-	650.848
Gross/Weapon System Cost	1.210	360	435.718	1.235	360	444.433	1.257	360	452.593	1.280	360	460.749	1.657	891	1,476.585	1.418	2,706	3,836.288

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

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 ER
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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
JASSM Extended Range (ER) All-Up-Round ^(†)		2015	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Jun 2015	Mar 2017	115	1.283	Y		Jan 2014
JASSM Extended Range (ER) All-Up-Round ^(†)		2016	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Jun 2016	Dec 2017	260	1.255	Y		Jan 2014
JASSM Extended Range (ER) All-Up-Round ^(†)		2017	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Aug 2017	Sep 2018	360	1.092	Y	Jul 2016	Aug 2016
JASSM Extended Range (ER) All-Up-Round ^(†)		2018	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Jun 2018	Jul 2019	360	1.103	Y	Jul 2017	Jul 2017
JASSM Extended Range (ER) All-Up-Round ^(†)		2019	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Apr 2019	May 2020	360	1.122	Y	Jul 2018	Jul 2018
JASSM Extended Range (ER) All-Up-Round ^(†)		2020	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Feb 2020	Mar 2021	360	1.141	Y	Jul 2019	Jul 2019

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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 ER

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016													
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
JASSM Extended Range (ER) All-Up-Round																															
1		2015	AF	115	-	115																							115		
1		2016	AF	260	-	260																							260		
1		2017	AF	360	-	360																							360		
1		2018	AF	360	-	360																							360		
1		2019	AF	360	-	360																							360		
1		2020	AF	360	-	360																							360		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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 ER

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018													
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
JASSM Extended Range (ER) All-Up-Round																															
1		2015	AF	115	-	115	-	-	-	-	-	-	9	9	10	12	15	15	15	15	15								-		
1		2016	AF	260	-	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	21	21	25	25	25	25	25	24	20	40
1		2017	AF	360	-	360																						10	350		
1		2018	AF	360	-	360																								360	
1		2019	AF	360	-	360																								360	
1		2020	AF	360	-	360																								360	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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 ER

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019												Fiscal Year 2020													
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	B A L
JASSM Extended Range (ER) All-Up-Round																															
1		2015	AF	115	115	-																									
1		2016	AF	260	220	40	20	20																							
1		2017	AF	360	10	350	10	10	40	40	40	40	40	40	25	25															
1		2018	AF	360	-	360	-	-	-	-	-	-	-	-	15	15	35	35	40	40	40	40	35	35	15	15					
1		2019	AF	360	-	360							A	-	-	-	-	-	-	-	-	-	-	15	15	35	40	40			
1		2020	AF	360	-	360															A	-	-	-	-	-	-	360			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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 ER

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022													
O C C #	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	B A L
JASSM Extended Range (ER) All-Up-Round																															
1		2015	AF	115	115	-																									
1		2016	AF	260	260	-																									
1		2017	AF	360	360	-																									
1		2018	AF	360	360	-																									
1		2019	AF	360	145	215	40	40	40	35	30	15	15																		
1		2020	AF	360	-	360	-	-	-	-	-	15	15	35	35	35	35	35	35	30	30	30	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	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force	Date: February 2015
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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]: - / JASSM0 JASSM ER
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MFR Ref #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Lockheed Martin - Troy, Alabama	175	360	360	-	-	-	-	-	-	9	18	27

"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 2016 Air Force **Date:** February 2015

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) : B **Program Elements for Code B Items:** 0207161F **Other Related Program Elements:**

Line Item MDAP/MAIS Code: 442 **Item MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	383	225	303	506	-	506	501	471	211	211	541	3,352
Gross/Weapon System Cost (<i>\$ in Millions</i>)	237.372	105.190	129.121	200.777	-	200.777	212.377	204.524	115.491	117.572	323.108	1,645.532
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	237.372	105.190	129.121	200.777	-	200.777	212.377	204.524	115.491	117.572	323.108	1,645.532
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	237.372	105.190	129.121	200.777	-	200.777	212.377	204.524	115.491	117.572	323.108	1,645.532

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

Initial Spares (<i>\$ in Millions</i>)	4.654	1.650	1.717	0.604	-	0.604	2.447	2.254	1.834	1.868	17.266	34.294
Flyaway Unit Cost (<i>\$ in Millions</i>)	0.496	0.367	0.397	0.375	-	0.375	0.403	0.413	0.506	0.520	0.560	0.350
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.620	0.468	0.426	0.397	-	0.397	0.424	0.434	0.547	0.557	0.597	0.491

Description:

The AIM-9X Sidewinder short-range air-to-air missile is a long term evolution of the AIM-9 series of fielded missiles. The AIM-9X missile program provides a launch and leave, air combat munition that uses passive infrared (IR) energy for acquisition and tracking of enemy aircraft and complements the Advanced Medium Range Air-to-Air missile (AMRAAM). Air superiority in the short-range air-to-air missile arena is essential and includes first shot, first kill opportunity against an enemy employing IR countermeasures. The AIM-9X employs several components common with the AIM-9M (fuze, rocket motor and warhead). Anti-Tamper features have been incorporated to protect improvements inherent in this design.

AIM-9X is a Post Milestone C, Acquisition Category IC (ACAT-IC) joint service program with Navy lead. AIM-9X Block I program concluded in FY 2011 and all funding/quantity data in the documents are associated with Block II activities. Production changed from Block I to Block II missiles in Sep 2011.

The Navy bought 1,289 Block I missiles under this Budget Line Item (BLI) in addition to 63 Block I missiles in FY 2001 under the AIM-9M Modification program. The Navy will procure 2,648 total Block II missiles under this BLI.

The Air Force bought 1,678 Block I missiles under this BLI in addition to 67 Block I missiles in FY 2001 under the AIM-9M Modification program. The Air Force will procure 3,352 total Block II missiles under this BLI.

Funding for this exhibit contained in PE 0207161F. Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. This potential DMS funding will be used for items which includes obsolescence and loss of manufacturing sources for custom circuit cards related to the inertial measurement unit, control actuator system, and the missile guidance unit.

The FY2016 funding request was reduced by \$1.142 million to account for the availability of prior execution balances.

The quantities shown in the docs are estimates only and may change.

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

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) : B **Program Elements for Code B Items:** 0207161F **Other Related Program Elements:**

Line Item MDAP/MAIS Code: 442 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
Sidewinder (AIM-9X)	P-5, P-5a, P-21		383 / 237.372	225 / 105.190	303 / 129.121	506 / 200.777	- / -	506 / 200.777
Total Gross/Weapon System Cost			383 / 237.372	225 / 105.190	303 / 129.121	506 / 200.777	- / -	506 / 200.777

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
Sidewinder (AIM-9X)	P-5, P-5a, P-21		501 / 212.377	471 / 204.524	211 / 115.491	211 / 117.572	541 / 323.108	3,352 / 1,645.532
Total Gross/Weapon System Cost			501 / 212.377	471 / 204.524	211 / 115.491	211 / 117.572	541 / 323.108	3,352 / 1,645.532

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

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

Justification:

FY16 provides funding to procure the second lot of Full Rate Production (FRP) AIM-9X Block II missiles.

**Procurement quantities are estimates only and fall within a range of quantities based on negotiations for each specific lot contract.

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

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) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	383	225	303	506	-	506	501	471	211	211	541	3,352
Gross/Weapon System Cost (\$ in Millions)	237.372	105.190	129.121	200.777	-	200.777	212.377	204.524	115.491	117.572	323.108	1,645.532
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	237.372	105.190	129.121	200.777	-	200.777	212.377	204.524	115.491	117.572	323.108	1,645.532
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	237.372	105.190	129.121	200.777	-	200.777	212.377	204.524	115.491	117.572	323.108	1,645.532

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

Initial Spares (\$ in Millions)	4.654	1.650	1.717	0.604	-	0.604	2.447	2.254	1.834	1.868	17.266	34.294
Gross/Weapon System Unit Cost (\$ in Millions)	0.620	0.468	0.426	0.397	-	0.397	0.424	0.434	0.547	0.557	0.597	0.491

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Flyaway End Item Cost																		
Recurring Cost																		
All Up Round - Block II ^(†)	0.483	234	113.049	0.381	170	64.781	0.421	240	101.026	0.379	429	162.784	-	-	-	0.379	429	162.784
Captive Air Training Missile (CATM) - Block II ^(†)	0.260	149	38.715	0.199	55	10.927	0.224	63	14.127	0.200	77	15.423	-	-	-	0.200	77	15.423
Engineering Change Orders - Block II	-	-	2.038	-	-	-	-	-	2.462	-	-	3.894	-	-	-	-	-	3.894
Diminishing Manufacturing Sources	-	-	0.000	-	-	1.750	-	-	1.018	-	-	1.036	-	-	-	-	-	1.036
Government Cost (GFE & Testing) - Block II	-	-	0.094	-	-	-	-	-	0.011	-	-	0.011	-	-	-	-	-	0.011
Special Test/Special Tooling Equipment - Block II	-	-	6.142	-	-	0.008	-	-	0.304	-	-	4.816	-	-	-	-	-	4.816
Missile Containers - Block II ^(†)	0.015	105	1.612	0.012	63	0.761	0.013	84	1.108	0.012	140	1.647	-	-	-	0.012	140	1.647
Non-Recurring Engineering - Block II	-	-	28.229	-	-	4.250	-	-	0.362	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>189.879</i>	<i>-</i>	<i>-</i>	<i>82.477</i>	<i>-</i>	<i>-</i>	<i>120.418</i>	<i>-</i>	<i>-</i>	<i>189.611</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>189.611</i>
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	<i>-</i>	<i>-</i>	<i>189.879</i>	<i>-</i>	<i>-</i>	<i>82.477</i>	<i>-</i>	<i>-</i>	<i>120.418</i>	<i>-</i>	<i>-</i>	<i>189.611</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>189.611</i>

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Exhibit P-5, Cost Analysis: PB 2016 Air Force													Date: February 2015					
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) :										MDAP/MAIS Code:							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Support - Support End Item Cost																		
Production Tech Support	-	-	14.057	-	-	2.372	-	-	3.169	-	-	5.176	-	-	-	-	-	5.176
Peculiar Support Equipment - Block II	-	-	0.026	-	-	-	-	-	0.033	-	-	0.034	-	-	-	-	-	0.034
Training Support - Block II	-	-	5.767	-	-	4.542	-	-	0.853	-	-	0.868	-	-	-	-	-	0.868
PMA Contractor Services - Block II	-	-	5.180	-	-	1.199	-	-	1.055	-	-	2.041	-	-	-	-	-	2.041
PMA Other Government Costs - Block II	-	-	22.463	-	-	14.600	-	-	3.593	-	-	3.047	-	-	-	-	-	3.047
<i>Subtotal: Support - Support End Item Cost</i>	-	-	47.493	-	-	22.713	-	-	8.703	-	-	11.166	-	-	-	-	-	11.166
Gross/Weapon System Cost	0.620	383	237.372	0.468	225	105.190	0.426	303	129.121	0.397	506	200.777	-	-	-	0.397	506	200.777

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Flyaway End Item Cost																		
Recurring Cost																		
All Up Round - Block II ^(†)	0.411	424	174.113	0.417	399	166.485	0.486	211	102.570	0.500	211	105.407	0.536	541	289.943	0.448	2,859	1,280.158
Captive Air Training Missile (CATM) - Block II ^(†)	0.203	77	15.645	0.203	72	14.638	-	-	-	-	-	-	-	-	-	0.222	493	109.475
Engineering Change Orders - Block II	-	-	3.873	-	-	3.675	-	-	2.039	-	-	2.094	-	-	5.729	-	-	25.804
Diminishing Manufacturing Sources	-	-	1.055	-	-	1.074	-	-	1.093	-	-	1.113	-	-	3.460	-	-	11.599
Government Cost (GFE & Testing) - Block II	-	-	0.012	-	-	0.012	-	-	0.012	-	-	0.012	-	-	0.039	-	-	0.203
Special Test/Special Tooling Equipment - Block II	-	-	5.492	-	-	7.012	-	-	0.312	-	-	0.314	-	-	1.698	-	-	26.098
Missile Containers - Block II ^(†)	0.012	139	1.600	0.011	130	1.484	0.013	59	0.758	0.013	59	0.761	0.013	151	1.994	0.013	930	11.725

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

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

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Non-Recurring Engineering - Block II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.841
<i>Subtotal: Recurring Cost</i>	-	-	201.790	-	-	194.380	-	-	106.784	-	-	109.701	-	-	302.863	-	-	1,497.903
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	201.790	-	-	194.380	-	-	106.784	-	-	109.701	-	-	302.863	-	-	1,497.903
Support - Support End Item Cost																		
Production Tech Support	-	-	5.109	-	-	4.564	-	-	1.773	-	-	1.214	-	-	3.090	-	-	40.524
Peculiar Support Equipment - Block II	-	-	0.063	-	-	0.064	-	-	0.065	-	-	0.066	-	-	0.205	-	-	0.556
Training Support - Block II	-	-	0.886	-	-	0.899	-	-	2.120	-	-	2.158	-	-	3.034	-	-	21.127
PMA Contractor Services - Block II	-	-	2.197	-	-	2.284	-	-	2.340	-	-	2.201	-	-	7.008	-	-	25.505
PMA Other Government Costs - Block II	-	-	2.332	-	-	2.333	-	-	2.409	-	-	2.232	-	-	6.908	-	-	59.917
<i>Subtotal: Support - Support End Item Cost</i>	-	-	10.587	-	-	10.144	-	-	8.707	-	-	7.871	-	-	20.245	-	-	147.629
Gross/Weapon System Cost	0.424	501	212.377	0.434	471	204.524	0.547	211	115.491	0.557	211	117.572	0.597	541	323.108	0.491	3,352	1,645.532

Remarks:

The Block II missile is a Code B item, though specs are available as annotated on the P-5A. 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 FY14 contract was signed on 25 June 2014 and procures the last lot of Low Rate Initial Production (LRIP).

Block I is concluded and all funding/quantity data in the documents are associated with Block II activities. The Block I program costs were \$472.086M.

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force								Date: February 2015				
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	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
All Up Round - Block II ^(†)		2013	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Aug 2013	Dec 2014	92	0.419	Y		Jan 2012
All Up Round - Block II ^(†)		2014	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Jun 2014	Sep 2015	170	0.381	Y		Jan 2013
All Up Round - Block II ^(†)		2015	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Aug 2015	Sep 2016	240	0.421	Y		Jan 2014
All Up Round - Block II ^(†)		2016	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2016	Sep 2017	429	0.379	Y		Jan 2015
All Up Round - Block II ^(†)		2017	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2017	Sep 2018	424	0.411	Y		Jan 2016
All Up Round - Block II ^(†)		2018	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2018	Sep 2019	399	0.417	Y		Jan 2017
All Up Round - Block II ^(†)		2019	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2019	Sep 2020	211	0.486	Y		Jan 2018
All Up Round - Block II ^(†)		2020	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2020	Sep 2021	211	0.500	Y		Jan 2019
Captive Air Training Missile (CATM) - Block II ^(†)		2013	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Aug 2013	Sep 2014	58	0.208	Y		Jan 2012
Captive Air Training Missile (CATM) - Block II ^(†)		2014	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Jun 2014	Sep 2015	55	0.199	Y		Jan 2013
Captive Air Training Missile (CATM) - Block II ^(†)		2015	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Aug 2015	Sep 2016	63	0.224	Y		Jan 2014
Captive Air Training Missile (CATM) - Block II ^(†)		2016	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2016	Sep 2017	77	0.200	Y		Jan 2015
Captive Air Training Missile (CATM) - Block II ^(†)		2017	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2017	Sep 2018	77	0.203	Y		Jan 2016
Captive Air Training Missile (CATM) - Block II ^(†)		2018	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2018	Sep 2019	72	0.203	Y		Jan 2017
Captive Air Training Missile (CATM) - Block II ^(†)		2019	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2019	Sep 2020	-	1.000	Y		Jan 2018
Captive Air Training Missile (CATM) - Block II ^(†)		2020	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2020	Sep 2021	-	1.000	Y		Jan 2019
Missile Containers - Block II ^(†)		2013	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Aug 2013	Sep 2014	39	0.013	Y		Jan 2012
Missile Containers - Block II ^(†)		2014	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	NAVAIR	Jun 2014	Sep 2015	63	0.012	Y		Jan 2013
Missile Containers - Block II ^(†)		2015	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Aug 2015	Sep 2016	84	0.013	Y		Jan 2014

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

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
Missile Containers - Block II ^(†)		2016	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2016	Sep 2017	140	0.012	Y		Jan 2015
Missile Containers - Block II ^(†)		2017	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2017	Sep 2018	139	0.012	Y		Jan 2016
Missile Containers - Block II ^(†)		2018	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2018	Sep 2019	130	0.011	Y		Jan 2017
Missile Containers - Block II ^(†)		2019	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2019	Sep 2020	59	0.013	Y		Jan 2018
Missile Containers - Block II ^(†)		2020	Raytheon Missile Systems / Tucson, AZ	SS / FFP	NAVAIR	Feb 2020	Sep 2021	59	0.013	Y		Jan 2019

^(†) indicates the presence of a P-21

Remarks:

FY14 is the fourth Lot of Low Rate Initial Production Block II missiles
 FY15 is forecasted to be the first Lot of Full Rate Production Block II missiles
 FY16 is forecasted to be the second Lot of Full Rate Production Block II missiles

Procurement quantities are estimates only and fall within a range of quantities based on negotiations for each specific lot contract

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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 2013												Fiscal Year 2014													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
All Up Round - Block II																															
Prior Years Deliveries: 142																															
1	2013	AF		92	-	92																									
1	2013	NAVY (+)		92	-	92																									
1	2013	FMS (+)		170	-	170																									
1	2013	Total		354	-	354																									
1	2014	AF		170	-	170																									
1	2014	NAVY (+)		161	-	161																									
1	2014	FMS (+)		196	-	196																									
1	2014	Total		527	-	527																									
1	2015	AF		240	-	240																									
1	2015	NAVY (+)		127	-	127																									
1	2015	FMS (+)		80	-	80																									
1	2015	Total		447	-	447																									
1	2016	AF		429	-	429																									
1	2016	FMS (+)		80	-	80																									
1	2016	Total		509	-	509																									
1	2017	AF		424	-	424																									
1	2017	NAVY (+)		185	-	185																									
1	2017	FMS (+)		80	-	80																									
1	2017	Total		689	-	689																									
1	2018	AF		399	-	399																									
1	2018	NAVY (+)		187	-	187																									
1	2018	Total		586	-	586																									
1	2019	AF		211	-	211																									
1	2019	NAVY (+)		115	-	115																									
1	2019	FMS (+)		80	-	80																									
1	2019	Total		406	-	406																									
1	2020	AF		211	-	211																									
1	2020	NAVY (+)		115	-	115																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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 2015												Fiscal Year 2016														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												B A L	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
Prior Years Deliveries: 66																																
3	2013	AF		39	4	35	5	5	5	3	3	3	3	2	2	2	2													-		
3	2013	NAVY (+)		43	4	39	5	5	5	3	3	3	3	3	3	3	3													-		
3	2013	FMS (+)		65	2	63	1	1	6	7	7	7	6	6	5	11	6													-		
3	2013	Total		147	10	137	11	11	16	13	13	13	12	11	10	16	11													-		
3	2014	AF		63	-	63	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	5	4	4	4	4	-		
3	2014	NAVY (+)		59	-	59	-	-	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	5	5	5	5	4	-		
3	2014	FMS (+)		79	-	79	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	6	6	6	6	6	-		
3	2014	Total		201	-	201	-	-	-	-	-	-	-	-	-	-	-	18	18	18	18	18	18	18	16	15	15	15	14	-		
3	2015	AF		84	-	84																								8	76	
3	2015	NAVY (+)		46	-	46																								4	42	
3	2015	FMS (+)		22	-	22																										22
3	2015	Total		152	-	152																									12	140
3	2016	AF		140	-	140																										140
3	2016	NAVY (+)		63	-	63																										63
3	2016	FMS (+)		22	-	22																										22
3	2016	Total		225	-	225																										225
3	2017	AF		139	-	139																										139
3	2017	NAVY (+)		61	-	61																										61
3	2017	FMS (+)		22	-	22																										22
3	2017	Total		222	-	222																										222
3	2018	AF		130	-	130																										130
3	2018	NAVY (+)		63	-	63																										63
3	2018	FMS (+)		22	-	22																										22
3	2018	Total		215	-	215																										215
3	2019	AF		59	-	59																										59
3	2019	NAVY (+)		43	-	43																										43
3	2019	FMS (+)		22	-	22																										22
3	2019	Total		124	-	124																										124
3	2020	AF		59	-	59																										59
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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 2017													Fiscal Year 2018														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
All Up Round - Block II																																
Prior Years Deliveries: 142																																
1	2013	AF		92	92	-																							-			
1	2013	NAVY (+)		92	92	-																							-			
1	2013	FMS (+)		170	170	-																							-			
1	2013	Total		354	354	-																							-			
1	2014	AF		170	170	-																							-			
1	2014	NAVY (+)		161	161	-																							-			
1	2014	FMS (+)		196	196	-																							-			
1	2014	Total		527	527	-																							-			
1	2015	AF		240	30	210	30	18	18	16	26	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	22		-			
1	2015	NAVY (+)		127	6	121	7	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	6		-			
1	2015	FMS (+)		80	-	80	-	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		-			
1	2015	Total		447	36	411	37	38	38	36	46	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36		-			
1	2016	AF		429	-	429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33		-			
1	2016	FMS (+)		80	-	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8		-			
1	2016	Total		509	-	509	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41		-			
1	2017	AF		424	-	424					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	388				
1	2017	NAVY (+)		185	-	185					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	169				
1	2017	FMS (+)		80	-	80					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	73				
1	2017	Total		689	-	689					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59	630				
1	2018	AF		399	-	399																							399			
1	2018	NAVY (+)		187	-	187																							187			
1	2018	Total		586	-	586																							586			
1	2019	AF		211	-	211																							211			
1	2019	NAVY (+)		115	-	115																							115			
1	2019	FMS (+)		80	-	80																							80			
1	2019	Total		406	-	406																							406			
1	2020	AF		211	-	211																							211			
1	2020	NAVY (+)		115	-	115																							115			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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														
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												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
All Up Round - Block II																																
Prior Years Deliveries: 142																																
1	2013	AF		92	92	-																										
1	2013	NAVY (+)		92	92	-																										
1	2013	FMS (+)		170	170	-																										
1	2013	Total		354	354	-																										
1	2014	AF		170	170	-																										
1	2014	NAVY (+)		161	161	-																										
1	2014	FMS (+)		196	196	-																										
1	2014	Total		527	527	-																										
1	2015	AF		240	240	-																										
1	2015	NAVY (+)		127	127	-																										
1	2015	FMS (+)		80	80	-																										
1	2015	Total		447	447	-																										
1	2016	AF		429	429	-																										
1	2016	FMS (+)		80	80	-																										
1	2016	Total		509	509	-																										
1	2017	AF		424	36	388	36	36	36	35	35	35	35	35	35	35	35	35	35	34	34	34	33	33	33	33	33	33	33			
1	2017	NAVY (+)		185	16	169	16	16	16	16	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	16	16	11			
1	2017	FMS (+)		80	7	73	7	7	7	7	7	7	7	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	6			
1	2017	Total		689	59	630	59	59	59	58	57	57	57	56	56	56	56	56	56	50	50	50	49	49	49	49	49	44				
1	2018	AF		399	-	399	-	-	-	-	-	-	-	-	-	-	-	-	-	34	34	34	33	33	33	33	33	33				
1	2018	NAVY (+)		187	-	187	-	-	-	-	-	-	-	-	-	-	-	-	-	16	16	16	16	16	16	16	16	11				
1	2018	Total		586	-	586	-	-	-	-	-	-	-	-	-	-	-	-	-	50	50	50	49	49	49	49	49	44				
1	2019	AF		211	-	211					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17				
1	2019	NAVY (+)		115	-	115					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9				
1	2019	FMS (+)		80	-	80					A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7				
1	2019	Total		406	-	406					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33					
1	2020	AF		211	-	211																						211				
1	2020	NAVY (+)		115	-	115																						115				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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														
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												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Prior Years Deliveries: 66																															
3	2013	AF		39	39	-																							-		
3	2013	NAVY (+)		43	43	-																								-	
3	2013	FMS (+)		65	65	-																								-	
3	2013	Total		147	147	-																								-	
3	2014	AF		63	63	-																								-	
3	2014	NAVY (+)		59	59	-																								-	
3	2014	FMS (+)		79	79	-																								-	
3	2014	Total		201	201	-																								-	
3	2015	AF		84	84	-																								-	
3	2015	NAVY (+)		46	46	-																								-	
3	2015	FMS (+)		22	22	-																								-	
3	2015	Total		152	152	-																								-	
3	2016	AF		140	140	-																								-	
3	2016	NAVY (+)		63	63	-																								-	
3	2016	FMS (+)		22	22	-																								-	
3	2016	Total		225	225	-																								-	
3	2017	AF		139	12	127	12	12	12	12	12	12	12	11	10	10														-	
3	2017	NAVY (+)		61	6	55	5	5	5	5	5	5	5	5	5	5														-	
3	2017	FMS (+)		22	2	20	2	2	2	2	2	2	1	1	2	2														-	
3	2017	Total		222	20	202	19	19	19	19	19	19	18	17	17	17														-	
3	2018	AF		130	-	130	-	-	-	-	-	-	-	-	-	-	11	11	11	11	11	11	11	11	11	11	11	11	9	-	
3	2018	NAVY (+)		63	-	63	-	-	-	-	-	-	-	-	-	-	6	6	6	5	5	5	5	5	5	5	5	5	5	-	
3	2018	FMS (+)		22	-	22	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	1	1	2	2	-	-	
3	2018	Total		215	-	215	-	-	-	-	-	-	-	-	-	-	19	19	19	18	18	18	18	18	18	17	17	18	16	-	
3	2019	AF		59	-	59																							5	54	
3	2019	NAVY (+)		43	-	43																							4	39	
3	2019	FMS (+)		22	-	22																							2	20	
3	2019	Total		124	-	124																							11	113	
3	2020	AF		59	-	59																								59	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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														
O C C #	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												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
All Up Round - Block II																																
Prior Years Deliveries: 142																																
1	2013	AF		92	92	-																										
1	2013	NAVY (+)		92	92	-																										
1	2013	FMS (+)		170	170	-																										
1	2013	Total		354	354	-																										
1	2014	AF		170	170	-																										
1	2014	NAVY (+)		161	161	-																										
1	2014	FMS (+)		196	196	-																										
1	2014	Total		527	527	-																										
1	2015	AF		240	240	-																										
1	2015	NAVY (+)		127	127	-																										
1	2015	FMS (+)		80	80	-																										
1	2015	Total		447	447	-																										
1	2016	AF		429	429	-																										
1	2016	FMS (+)		80	80	-																										
1	2016	Total		509	509	-																										
1	2017	AF		424	424	-																										
1	2017	NAVY (+)		185	185	-																										
1	2017	FMS (+)		80	80	-																										
1	2017	Total		689	689	-																										
1	2018	AF		399	399	-																										
1	2018	NAVY (+)		187	187	-																										
1	2018	Total		586	586	-																										
1	2019	AF		211	17	194	17	17	17	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18			
1	2019	NAVY (+)		115	9	106	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
1	2019	FMS (+)		80	7	73	7	7	7	7	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
1	2019	Total		406	33	373	33	33	33	34	34	34	34	34	35	35	34	34	34	34	34	34	34	34	34	34	34	34				
1	2020	AF		211	-	211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1	2020	NAVY (+)		115	-	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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													
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 2 0	BAL D U E A 	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	B A L
Prior Years Deliveries: 66																															
3	2013	AF		39	39	-																							-		
3	2013	NAVY (+)		43	43	-																							-		
3	2013	FMS (+)		65	65	-																							-		
3	2013	Total		147	147	-																							-		
3	2014	AF		63	63	-																							-		
3	2014	NAVY (+)		59	59	-																							-		
3	2014	FMS (+)		79	79	-																							-		
3	2014	Total		201	201	-																							-		
3	2015	AF		84	84	-																							-		
3	2015	NAVY (+)		46	46	-																							-		
3	2015	FMS (+)		22	22	-																							-		
3	2015	Total		152	152	-																							-		
3	2016	AF		140	140	-																							-		
3	2016	NAVY (+)		63	63	-																							-		
3	2016	FMS (+)		22	22	-																							-		
3	2016	Total		225	225	-																							-		
3	2017	AF		139	139	-																							-		
3	2017	NAVY (+)		61	61	-																							-		
3	2017	FMS (+)		22	22	-																							-		
3	2017	Total		222	222	-																							-		
3	2018	AF		130	130	-																							-		
3	2018	NAVY (+)		63	63	-																							-		
3	2018	FMS (+)		22	22	-																							-		
3	2018	Total		215	215	-																							-		
3	2019	AF		59	5	54	5	5	5	5	5	5	5	5	5	4													-		
3	2019	NAVY (+)		43	4	39	4	4	3	4	3	4	3	4	3														-		
3	2019	FMS (+)		22	2	20	2	2	2	2	2	2	1	1	2	2													-		
3	2019	Total		124	11	113	11	11	10	11	10	11	10	10	9	11	9												-		
3	2020	AF		59	-	59	-	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	5	5	5	5	5	4	-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force															Date: February 2015														
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															
O C 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													B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
	3	2020	NAVY (*)	43	-	43	-	-	-	-	-	-	-	-	-	-	4	4	4	3	4	3	4	3	4	3	4	3	4	3	-		
	3	2020	FMS (*)	22	-	22	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	1	1	2	2	-	-	-		
	3	2020	Total	124	-	124	-	-	-	-	-	-	-	-	-	11	11	11	10	11	10	11	10	10	9	11	9	-	-	-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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 #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Raytheon Missile Systems - Tucson, AZ	300	600	800	-	5	19	24	-	-	-	-
2	Raytheon Missile Systems - Tucson, AZ	300	600	800	-	5	19	24	-	-	-	-
3	Raytheon Missile Systems - Tucson, AZ	300	600	800	-	5	19	24	-	-	-	-

(†) 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 2016 Air Force **Date:** February 2015

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:** **Other Related Program Elements:** 0207163F

Line Item MDAP/MAIS Code: 185 **Item MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	8,744	183	200	262	-	262	253	362	396	375	1,270	12,045
Gross/Weapon System Cost (<i>\$ in Millions</i>)	8,070.370	318.415	329.600	390.112	-	390.112	373.798	451.265	486.862	475.166	1,681.800	12,577.388
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	8,070.370	318.415	329.600	390.112	-	390.112	373.798	451.265	486.862	475.166	1,681.800	12,577.388
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	8,070.370	318.415	329.600	390.112	-	390.112	373.798	451.265	486.862	475.166	1,681.800	12,577.388

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

Initial Spares (<i>\$ in Millions</i>)	-	0.084	2.062	1.996	-	1.996	2.089	2.080	2.060	2.097	-	12.468
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.923	1.740	1.648	1.489	-	1.489	1.477	1.247	1.229	1.267	1.324	1.044

Description:

The Advanced Medium Range Air-to-Air Missile (AMRAAM) is the premier all-weather, all-environment radar guided missile developed jointly by the Air Force and Navy. The Air Force is the lead service. AMRAAM is small, fast, light missile with improved capabilities against very low-altitude and high-altitude targets in an electronic attack (EA) environment as compared to previously fielded radar guided missiles. The AIM-120D provides improved performance from GPS-aided navigation, a two way data link to enhance aircrew survivability and network compatibility, and new guidance software which improves kinematic and weapon effectiveness performance.

Funding for this exhibit is contained in PE 0207163F.

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

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:** **Other Related Program Elements:** 0207163F

Line Item MDAP/MAIS Code: 185 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
AMRAAM	P-5, P-5a, P-21		8,744 / 8,070.370	183 / 318.415	200 / 329.600	262 / 390.112	- / -	262 / 390.112
Total Gross/Weapon System Cost			8,744 / 8,070.370	183 / 318.415	200 / 329.600	262 / 390.112	- / -	262 / 390.112

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
AMRAAM	P-5, P-5a, P-21		253 / 373.798	362 / 451.265	396 / 486.862	375 / 475.166	1,270 / 1,681.800	12,045 / 12,577.388
Total Gross/Weapon System Cost			253 / 373.798	362 / 451.265	396 / 486.862	375 / 475.166	1,270 / 1,681.800	12,045 / 12,577.388

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

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

Justification:
 FY16 continues the procurement and support of AMRAAM for the Air Force and Navy in Lot 30. Procures 262 AIM-120D missiles for the Air Force. Build additional and modify existing tooling and test equipment to support production rates necessary to continue the production of the AIM-120D. Continue to update the AMRAAM Technical Data Package to ensure a viable, producible design through the expected production life of the AMRAAM program. Maintain a robust supplier base capable of sustaining AMRAAM production for the life of the program. Continue to develop second source suppliers for critical items. 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. Continue to procure Telemetry (TM) Instrumentation Units for Weapon System Evaluation Program (WSEP). Foreign Military Sales (FMS) participants will continue to procure AIM-120C7 missiles at the projected rate of 200 per year through FY2017 and 250 per year FY2018-2020. Missile procurement quantities are estimates only and may vary based upon final negotiations for each specific lot.

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

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

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	8,744	183	200	262	-	262	253	362	396	375	1,270	12,045
Gross/Weapon System Cost (\$ in Millions)	8,070.370	318.415	329.600	390.112	-	390.112	373.798	451.265	486.862	475.166	1,681.800	12,577.388
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	8,070.370	318.415	329.600	390.112	-	390.112	373.798	451.265	486.862	475.166	1,681.800	12,577.388
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	8,070.370	318.415	329.600	390.112	-	390.112	373.798	451.265	486.862	475.166	1,681.800	12,577.388

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

Initial Spares (\$ in Millions)	-	0.084	2.062	1.996	-	1.996	2.089	2.080	2.060	2.097	-	12.468
Gross/Weapon System Unit Cost (\$ in Millions)	0.923	1.740	1.648	1.489	-	1.489	1.477	1.247	1.229	1.267	1.324	1.044

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
AIM-120D Missile All Up Round (AUR) ^(†)	0.968	556	538.276	1.233	165	203.514	1.098	200	219.515	0.978	262	256.245	-	-	-	0.978	262	256.245
AIM-120D Missile Captive Air Training Missile (CATM) ^(†)	0.719	150	107.903	0.465	18	8.370	-	-	-	-	-	-	-	-	-	-	-	-
Warranty	-	-	8.779	-	-	1.898	-	-	-	-	-	-	-	-	-	-	-	-
Diminishing Manufacturing Sources/Material Shortages (DMS/MS)	-	-	31.018	-	-	61.117	-	-	63.034	-	-	67.315	-	-	-	-	-	67.315
Tooling and Test Equipment	-	-	8.294	-	-	7.425	-	-	4.128	-	-	11.034	-	-	-	-	-	11.034
Engineering Change Orders	-	-	1.451	-	-	5.826	-	-	1.701	-	-	6.273	-	-	-	-	-	6.273
Total Prior Years Costs	0.912	8,038	7,333.185	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	8,028.906	-	-	288.150	-	-	288.378	-	-	340.867	-	-	-	-	-	340.867
Subtotal: Hardware - Hardware End Item Cost	-	-	8,028.906	-	-	288.150	-	-	288.378	-	-	340.867	-	-	-	-	-	340.867
Ancillary Equipment - AncillaryEquipment End Item Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

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) : **MDAP/MAIS Code:**

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Containers and Cables	-	-	1.696	-	-	0.306	-	-	0.896	-	-	0.896	-	-	-	-	-	0.896
<i>Subtotal: Recurring Cost</i>	-	-	1.696	-	-	0.306	-	-	0.896	-	-	0.896	-	-	-	-	-	0.896
<i>Subtotal: Ancillary Equipment - Ancillary Equipment End Item Cost</i>	-	-	1.696	-	-	0.306	-	-	0.896	-	-	0.896	-	-	-	-	-	0.896
Support - Support End Item Cost																		
Production Test/Support	-	-	13.168	-	-	6.685	-	-	14.393	-	-	15.980	-	-	-	-	-	15.980
PMA Other Government Costs	-	-	1.001	-	-	0.768	-	-	0.620	-	-	1.897	-	-	-	-	-	1.897
PMA Contractor Services	-	-	0.684	-	-	1.415	-	-	1.029	-	-	2.379	-	-	-	-	-	2.379
Training Equipment	-	-	24.909	-	-	21.082	-	-	24.275	-	-	28.084	-	-	-	-	-	28.084
Logistics Support	-	-	0.006	-	-	0.009	-	-	0.009	-	-	0.009	-	-	-	-	-	0.009
<i>Subtotal: Support - Support End Item Cost</i>	-	-	39.768	-	-	29.959	-	-	40.326	-	-	48.349	-	-	-	-	-	48.349
Gross/Weapon System Cost	0.923	8,744	8,070.370	1.740	183	318.415	1.648	200	329.600	1.489	262	390.112	-	-	-	1.489	262	390.112

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
AIM-120D Missile All Up Round (AUR) ^(†)	1.103	253	279.045	1.026	362	371.450	1.023	396	405.182	1.043	375	390.981	1.069	1,270	1,357.056	1.047	3,839	4,021.264
AIM-120D Missile Captive Air Training Missile (CATM) ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.692	168	116.273
Warranty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.677
Diminishing Manufacturing Sources/Material Shortages (DMS/MS)	-	-	45.021	-	-	23.576	-	-	25.121	-	-	24.976	-	-	89.583	-	-	430.761
Tooling and Test Equipment	-	-	3.208	-	-	3.297	-	-	3.533	-	-	3.534	-	-	12.902	-	-	57.355
Engineering Change Orders	-	-	4.433	-	-	6.495	-	-	5.168	-	-	7.127	-	-	21.778	-	-	60.252

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

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Total Prior Years Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.912	8,038	7,333.185
<i>Subtotal: Recurring Cost</i>	-	-	331.707	-	-	404.818	-	-	439.004	-	-	426.618	-	-	1,481.319	-	-	12,029.767
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	331.707	-	-	404.818	-	-	439.004	-	-	426.618	-	-	1,481.319	-	-	12,029.767
Ancillary Equipment - AncillaryEquipment End Item Cost																		
Recurring Cost																		
Containers and Cables	-	-	0.896	-	-	0.896	-	-	0.896	-	-	0.913	-	-	3.829	-	-	11.224
<i>Subtotal: Recurring Cost</i>	-	-	0.896	-	-	0.896	-	-	0.896	-	-	0.913	-	-	3.829	-	-	11.224
<i>Subtotal: Ancillary Equipment - AncillaryEquipment End Item Cost</i>	-	-	0.896	-	-	0.896	-	-	0.896	-	-	0.913	-	-	3.829	-	-	11.224
Support - Support End Item Cost																		
Production Test/Support	-	-	10.759	-	-	11.663	-	-	12.124	-	-	12.145	-	-	47.824	-	-	144.741
PMA Other Government Costs	-	-	1.348	-	-	1.353	-	-	1.355	-	-	1.381	-	-	5.791	-	-	15.514
PMA Contractor Services	-	-	0.928	-	-	0.955	-	-	0.955	-	-	0.973	-	-	4.081	-	-	13.399
Training Equipment	-	-	28.150	-	-	31.570	-	-	32.518	-	-	33.136	-	-	138.956	-	-	362.680
Logistics Support	-	-	0.010	-	-	0.010	-	-	0.010	-	-	-	-	-	-	-	-	0.063
<i>Subtotal: Support - Support End Item Cost</i>	-	-	41.195	-	-	45.551	-	-	46.962	-	-	47.635	-	-	196.652	-	-	536.397
Gross/Weapon System Cost	1.477	253	373.798	1.247	362	451.265	1.229	396	486.862	1.267	375	475.166	1.324	1,270	1,681.800	1.044	12,045	12,577.388

Remarks:

- 1) Prior Years, Recurring Costs remarks:
 - The Total Prior Years Weapon System Cost Element, Prior Years column entries are composite numbers for all AIM-120 variants and types prior to FY2009.
 - The AIM-120D Missile All Up Round (AUR), Prior Years column entries are a composite of all AIM-120D FY2009-FY2010 AURs/CATMs and FY2011-FY2013 AURs only.
 - The AIM-120D Missile Captive Air Training Missile (CATM), Prior Years column entries are AIM-120D FY2011-FY2013 CATM numbers only.
- 2) FY2014-FY2016 are based on current projections and FY2017 are based on 200 AIM-120C7 FMS missiles/year and FY2018-FY2020 unit cost calculations are based on 250 AIM-120C7 FMS missiles/year.
- 3) FY2014 AF and USN buy warranty for CATMs only.
- 4) The Production/Test Support cost element includes costs such as engineering studies, technical support, network security, and modification of special test assets.
- 5) The Training Equipment cost element includes TM units to support WSEP and modification of TM components to maintain compatibility with F-22 and test range infrastructure.

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

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-120D Missile All Up Round (AUR) ^(†)		2014	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Dec 2014	Feb 2016	165	1.233	Y		Jul 2013
AIM-120D Missile All Up Round (AUR) ^(†)		2015	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2015	Feb 2017	200	1.098	Y		Jul 2013
AIM-120D Missile All Up Round (AUR) ^(†)		2016	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2016	Feb 2018	262	0.978	Y		Jul 2013
AIM-120D Missile All Up Round (AUR) ^(†)		2017	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2017	Feb 2019	253	1.103	Y		Mar 2016
AIM-120D Missile All Up Round (AUR) ^(†)		2018	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2018	Feb 2020	362	1.026	Y		Mar 2017
AIM-120D Missile All Up Round (AUR) ^(†)		2019	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2019	Feb 2021	396	1.023	Y		Mar 2018
AIM-120D Missile All Up Round (AUR) ^(†)		2020	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2020	Feb 2022	375	1.043	Y		Mar 2019
AIM-120D Missile Captive Air Training Missile (CATM) ^(†)		2014 (1)	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Dec 2014	Apr 2016	18	0.465	Y		Jul 2013

^(†) indicates the presence of a P-21

Remarks:
1) Unit Cost calculations for Air Force, Navy, and other requirements are based on 200 AIM-120C7 FMS missiles per year for FY2014-FY2017 and 250 FMS missiles per year for FY2018-FY2020.

Footnotes:
(1) FY14 is the last planned year of CATM procurement.

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** MAMRA0 / AMRAAM **Item Number / Title [DODIC]:** - / AMRAAM

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015													Fiscal Year 2016																				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L								
AIM-120D Missile All Up Round (AUR)																																							
Prior Years Deliveries: 556																																							
1	2014	AF		165	-	165			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	-	25	-	2	20	2	-	91
1	2014	FMS (‡)		300	-	300			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-	-	72	-	-	56	124		
1	2014	NAVY (‡)		2	-	2			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-		
1	2014	Total		467	-	467			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	48	25	-	74	20	2	56	215		
1	2015	AF		200	-	200							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200		
1	2015	FMS (‡)		300	-	300							A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300		
1	2015	Total		500	-	500							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500		
1	2016	AF		262	-	262																															262		
1	2016	FMS (‡)		200	-	200																															200		
1	2016	NAVY (‡)		138	-	138																																138	
1	2016	Total		600	-	600																															600		
1	2017	AF		253	-	253																															253		
1	2017	FMS (‡)		200	-	200																																200	
1	2017	NAVY (‡)		154	-	154																																154	
1	2017	Total		607	-	607																															607		
1	2018	AF		362	-	362																																362	
1	2018	FMS (‡)		250	-	250																																250	
1	2018	NAVY (‡)		233	-	233																																233	
1	2018	Total		845	-	845																															845		
1	2019	AF		396	-	396																																396	
1	2019	FMS (‡)		250	-	250																																250	
1	2019	NAVY (‡)		238	-	238																																238	
1	2019	Total		884	-	884																															884		
1	2020	AF		375	-	375																																375	
1	2020	FMS (‡)		250	-	250																																250	
1	2020	NAVY (‡)		227	-	227																																227	
1	2020	Total		852	-	852																															852		

AIM-120D Missile Captive Air Training Missile (CATM)

O C C O	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** MAMRA0 / AMRAAM **Item Number / Title [DODIC]:** - / AMRAAM

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2017														Fiscal Year 2018															
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 6	BAL D U E A S O F 1 O C T	Calendar Year 2017														Calendar Year 2018												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
AIM-120D Missile All Up Round (AUR)																																	
Prior Years Deliveries: 556																																	
1	2014	AF		165	74	91	46	-	-	45																			-				
1	2014	FMS (‡)		300	176	124	34	-	60	30																			-				
1	2014	NAVY (‡)		2	2	-	-	-	-	-																			-				
1	2014	Total		467	252	215	80	-	60	75																			-				
1	2015	AF		200	-	200	-	-	-	-	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	-				
1	2015	FMS (‡)		300	-	300	-	-	-	-	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	-				
1	2015	Total		500	-	500	-	-	-	-	41	41	41	41	42	42	42	42	42	42	42	42	42	42	42	42	42	-					
1	2016	AF		262	-	262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	22	22	22	22	22	22	86			
1	2016	FMS (‡)		200	-	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	16	16	16	17	17	17	68			
1	2016	NAVY (‡)		138	-	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	11	11	11	11	12	48			
1	2016	Total		600	-	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	49	49	49	50	50	51	202				
1	2017	AF		253	-	253																							253				
1	2017	FMS (‡)		200	-	200																							200				
1	2017	NAVY (‡)		154	-	154																							154				
1	2017	Total		607	-	607																							607				
1	2018	AF		362	-	362																							362				
1	2018	FMS (‡)		250	-	250																							250				
1	2018	NAVY (‡)		233	-	233																							233				
1	2018	Total		845	-	845																							845				
1	2019	AF		396	-	396																							396				
1	2019	FMS (‡)		250	-	250																							250				
1	2019	NAVY (‡)		238	-	238																							238				
1	2019	Total		884	-	884																							884				
1	2020	AF		375	-	375																							375				
1	2020	FMS (‡)		250	-	250																							250				
1	2020	NAVY (‡)		227	-	227																							227				
1	2020	Total		852	-	852																							852				

AIM-120D Missile Captive Air Training Missile (CATM)

O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** MAMRA0 / AMRAAM **Item Number / Title [DODIC]:** - / AMRAAM

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2023													Fiscal Year 2024													
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	B A L

AIM-120D Missile All Up Round (AUR)

Prior Years Deliveries: 556																															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
1	2014	AF		165	165	-																									-
1	2014	FMS (+)		300	300	-																									-
1	2014	NAVY (+)		2	2	-																									-
1	2014	Total		467	467	-																									-
1	2015	AF		200	200	-																									-
1	2015	FMS (+)		300	300	-																									-
1	2015	Total		500	500	-																									-
1	2016	AF		262	262	-																									-
1	2016	FMS (+)		200	200	-																									-
1	2016	NAVY (+)		138	138	-																									-
1	2016	Total		600	600	-																									-
1	2017	AF		253	253	-																									-
1	2017	FMS (+)		200	200	-																									-
1	2017	NAVY (+)		154	154	-																									-
1	2017	Total		607	607	-																									-
1	2018	AF		362	362	-																									-
1	2018	FMS (+)		250	250	-																									-
1	2018	NAVY (+)		233	233	-																									-
1	2018	Total		845	845	-																									-
1	2019	AF		396	396	-																									-
1	2019	FMS (+)		250	250	-																									-
1	2019	NAVY (+)		238	238	-																									-
1	2019	Total		884	884	-																									-
1	2020	AF		375	248	127	31	32	32	32																					-
1	2020	FMS (+)		250	166	84	21	21	21	21																					-
1	2020	NAVY (+)		227	151	76	19	19	19	19																					-
1	2020	Total		852	565	287	71	72	72	72																					-

AIM-120D Missile Captive Air Training Missile (CATM)

O C C O	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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 #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Raytheon Missile Systems - Tucson, AZ	400	720	1,020	6	6	23	29	-	-	-	-
2	Raytheon Missile Systems - Tucson, AZ	-	-	-	-	-	-	-	-	-	-	-

(±) 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 2016 Air Force **Date:** February 2015

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:** **Other Related Program Elements:** 0305219F

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	624	1,498	3,756	1,811	5,567	1,669	453	453	436	-	10,700
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	64.928	169.347	423.016	280.902	703.918	272.285	76.027	77.384	75.750	-	1,439.639
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	64.928	169.347	423.016	280.902	703.918	272.285	76.027	77.384	75.750	-	1,439.639
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	64.928	169.347	423.016	280.902	703.918	272.285	76.027	77.384	75.750	-	1,439.639

(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>	-	0.091	0.100	0.100	0.138	0.112	-	-	-	-	-	0.108
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	0.104	0.113	0.113	0.155	0.126	0.163	0.168	0.171	0.174	-	0.135

Description:

FY2014 funding totals include \$24.200M appropriated for Overseas Contingency Operations.
 FY2015 funding totals include \$125.469M appropriated for Overseas Contingency Operations.
 FY2016 funding totals include \$280.902M requested for Overseas Contingency Operations.

Hellfire is an air-to-ground missile system that provides precision-kill capability and has become a key weapon in Overseas Contingency 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-1 Predator and MQ-9 Reaper aircraft. The Army is the lead service for the Hellfire Missile program with Air Force missiles being procured through the Army's Redstone Arsenal. Unit cost may vary depending on lead Service, other Services and/or FMS procurement quantities. Prior to FY2008, Hellfire missiles were procured under the Predator PE 0305219F.

Funding for this exhibit contained in PE 0201109F.

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

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:** **Other Related Program Elements:** 0305219F

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
Predator Hellfire Missile	P-5, P-5a, P-21		- / -	624 / 64.928	1,498 / 169.347	3,756 / 423.016	1,811 / 280.902	5,567 / 703.918
Total Gross/Weapon System Cost			- / -	624 / 64.928	1,498 / 169.347	3,756 / 423.016	1,811 / 280.902	5,567 / 703.918

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

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

Justification:

Missile procurement for 3,756 AGM-114 Hellfire missiles, Telemetry Measurement (TM) kits, load training missiles, existing warhead improvements, height of burst kits and production implementation for the Height of Burst capability for R-model variants which incorporates a multi-purpose warhead, variable delay fuze and increased lethality. Multiple variants (K, M, N, P, R, R-2, R9B, R9E etc.) of the Hellfire missile may be procured based upon operational requirements for various warheads and the enhanced weapon engagement zone. Quantities are based on current estimated price for purchase through the Army. The Hellfire missiles are used for test, training and operations.

FY16 Overseas Contingency Operation (OCO) funds will procure an additional 2,500 AGM-114 Hellfire missiles, flight training missiles, telemetry measurement (TM) kits, height of burst kits and load training missiles. OCO funding is required to replenish Hellfire missiles expended in Operation Freedom's Sentinel during a portion of FY13, FY14 and projections through the end of FY15 and Operation Inherent Resolve during FY15. This funding will increase inventory levels required to maintain readiness to execute DoD approved combat plans and test/training requirements. Multiple variants (K, M, N, P, R, R-2, R9B, R9E etc.) of the Hellfire missile may be procured based upon operational requirements for various warheads and the enhanced weapon engagement zone. The Hellfire missile has been used extensively to provide close air support and engage time-sensitive targets such as improvised explosive device implacers, vehicles and personnel both in the open and in structures. Continued procurement of Hellfire weapons will enable the U.S. Air Force to meet their contingency requirements and ensure that Warfighter requirements are met. Quantities are based on current estimated price for purchase through the Army. The Hellfire missiles are used for test, training and operations.

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Exhibit P-5, Cost Analysis: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: PRDTA2 / Predator Hellfire Missile	Item Number / Title [DODIC]: - / Predator Hellfire Missile

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	-	624	1,498	3,756	1,811	5,567
Gross/Weapon System Cost (\$ in Millions)	-	64.928	169.347	423.016	280.902	703.918
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	64.928	169.347	423.016	280.902	703.918
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	64.928	169.347	423.016	280.902	703.918

(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)	-	0.104	0.113	0.113	0.155	0.126

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Flyaway End Item Cost																		
Recurring Cost																		
AGM-114 - All-up-Rounds ^(†)	-	-	-	0.091	624	56.786	0.100	1,498	149.829	0.100	3,756	375.550	0.138	1,811	250.003	0.112	5,567	625.553
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	56.786	-	-	149.829	-	-	375.550	-	-	250.003	-	-	625.553
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	-	-	-	56.786	-	-	149.829	-	-	375.550	-	-	250.003	-	-	625.553
Hardware - Hardware End Item Cost																		
Recurring Cost																		
Test Equipment	-	-	-	-	-	1.000	-	-	1.000	-	-	1.050	-	-	-	-	-	1.050
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.000	-	-	1.000	-	-	1.050	-	-	-	-	-	1.050
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	1.000	-	-	1.000	-	-	1.050	-	-	-	-	-	1.050
Support - Support End Item Cost																		
Program Management Administration	-	-	-	-	-	3.896	-	-	10.101	-	-	25.318	-	-	16.854	-	-	42.172
Production Engineering Support	-	-	-	-	-	3.246	-	-	8.417	-	-	21.098	-	-	14.045	-	-	35.143
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	7.142	-	-	18.518	-	-	46.416	-	-	30.899	-	-	77.315
Gross/Weapon System Cost	-	-	-	0.104	624	64.928	0.113	1,498	169.347	0.113	3,756	423.016	0.155	1,811	280.902	0.126	5,567	703.918

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: PRDTA2 / Predator Hellfire Missile	Item Number / Title [DODIC]: - / Predator Hellfire 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-114 - All-up-Rounds ^(†)		2014	Lockheed Martin / Troy, AL	MIPR	AFMC/OO-ALC	May 2014	May 2016	624	0.091	Y		
AGM-114 - All-up-Rounds ^(†)		2015	Lockheed Martin / Troy, AL	MIPR	AFMC/OO-ALC	May 2015	May 2017	1,498	0.100	Y		
AGM-114 - All-up-Rounds - May 2016 ^(†)		2016	Lockheed Martin / Troy, AL	MIPR	AFMC/OO-ALC	May 2016	May 2018	3,756	0.100	Y		
AGM-114 - All-up-Rounds - May 2016	✓	2016	Lockheed Martin / Troy, AL	MIPR	AFMC/OO-ALC	May 2016	May 2018	1,811	0.138	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: PRDTA2 / Predator Hellfire Missile	Item Number / Title [DODIC]: - / Predator Hellfire Missile
---	--	--

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
AGM-114 - All-up-Rounds																															
	1	2014	AF	624	-	624																								624	
	1	2015	AF	1,498	-	1,498																							1,498		
AGM-114 - All-up-Rounds - May 2016																															
	1	2016	AF	3,756	-	3,756																							3,756		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: PRDTA2 / Predator Hellfire Missile	Item Number / Title [DODIC]: - / Predator Hellfire Missile
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016													Fiscal Year 2017															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L			
AGM-114 - All-up-Rounds																																		
	1	2014	AF	624	-	624	-	-	-	-	-	-	-	-	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52					-
	1	2015	AF	1,498	-	1,498	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125	125	125	125	125	873
AGM-114 - All-up-Rounds - May 2016																																		
	1	2016	AF	3,756	-	3,756									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,756
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Air Force								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2				P-1 Line Item Number / Title: PRDTA2 / Predator Hellfire Missile				Item Number / Title [DODIC]: - / Predator Hellfire Missile				
		Production Rates (Each / Month)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Lockheed Martin - Troy, AL	-	-	400	-	-	-	-	-	8	24	32

"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 2016 Air Force **Date:** February 2015

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) : A **Program Elements for Code B Items:** **Other Related Program Elements:** 0207327F

Line Item MDAP/MAIS Code: 439 **Item MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	412	1,942	63	2,005	312	460	300	900	9,634	14,023
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	51.298	133.697	2.520	136.217	90.621	92.401	77.151	154.555	1,361.912	1,964.155
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	-	51.298	133.697	2.520	136.217	90.621	92.401	77.151	154.555	1,361.912	1,964.155
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	51.298	133.697	2.520	136.217	90.621	92.401	77.151	154.555	1,361.912	1,964.155

(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>)	-	-	0.123	0.059	0.040	0.059	0.193	0.127	0.112	0.134	0.126	0.118
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	0.125	0.069	0.040	0.068	0.290	0.201	0.257	0.172	0.141	0.140

Description:

FY2015 funding totals include \$10.720M appropriated for Overseas Contingency Operations for SDB I.

1. GBU-53/B: Small Diameter Bomb Increment II (SDB II) is a joint interest United States Air Force (USAF) and Department of Navy (DoN) ACAT ID program, with the USAF as the lead service. SDB II provides the warfighter the capability to attack mobile targets from stand-off, through weather. SDB II addresses the following warfighter requirements: attack moving and stationary targets, adverse weather operations, multiple kills per pass, multiple ordnance 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, and F/A-18 E/F. The AC-130 is being considered as an additional objective platform. SDB II will be compatible with the BRU-61 (Bomb Rack Unit) miniature munitions carriage, the Joint Miniature Munitions (JMM) BRU, the CNU-660/E carriage system, the Common Munitions Built-in-Test Reprogramming Equipment (CMBRE), and Joint Mission Planning System (JMPS). The SDB II program will develop and field a single weapon storage container (USAF) and a dual weapon container (DoN).

1a. SDB II completed a 42-month competitive Risk Reduction phase in October 2009. Milestone B approval to enter the Engineering and Manufacturing Development (EMD) phase was received on 29 July 2010 and the subsequent Acquisition Program Baseline was signed on 8 October 2010. A Fixed Price Incentive Firm (FPF) EMD contract was awarded on 9 August 2010. Eleven Guided Test Vehicle (GTV) test missions have been executed to date, including GTV-10, which was the last GTV required for the Systems Verification Review and a Milestone C decision. There are no significant software-related issues with the program at this time. Low Rate Initial Production (LRIP) is scheduled to begin in FY2015. Required Assets Available (RAA) on the F-15E is scheduled to be completed by July 2017. The DoN Initial Operational Capability (IOC) on the F-35B and F-35C will occur once all F-35B and F-35C operational testing is completed. SDB II is a key component of the Air Force Global Strike Task Force CONOPs.

1b. The total planned SDB II procurement is 17,000 weapons, 12,000 for the AF and 5,000 for the DoN. SDB II total procurement costs in this document include the 12,000 AF weapons, single weapon containers, and associated production support.

2. 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 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 the F-22, F-16, F-35A, B-1, A-10, B-52, and MQ-9. SDB I completed IOT&E in Jun 2006 and commenced Full Rate Production (FRP) in Dec 2006 with the last buy in FY2011. FY2015 OCO funds will allow for the replenishment of weapons used in current combat operations.

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

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) : A **Program Elements for Code B Items:** **Other Related Program Elements:** 0207327F

Line Item MDAP/MAIS Code: 439 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
Small Diameter Bomb	P-5, P-5a, P-21		- / 0.000	- / -	412 / 51.298	1,942 / 133.697	63 / 2.520	2,005 / 136.217
Total Gross/Weapon System Cost			- / 0.000	- / -	412 / 51.298	1,942 / 133.697	63 / 2.520	2,005 / 136.217

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
Small Diameter Bomb	P-5, P-5a, P-21		312 / 90.621	460 / 92.401	300 / 77.151	900 / 154.555	9,634 / 1,361.912	14,023 / 1,964.155
Total Gross/Weapon System Cost			312 / 90.621	460 / 92.401	300 / 77.151	900 / 154.555	9,634 / 1,361.912	14,023 / 1,964.155

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

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

Justification:

1. The FY2016 budget request includes funding for SDB II weapons, containers, training equipment required for weapon handling and maintenance, software maintenance, and test assets and support for reliability testing. Training equipment includes Weapon Load Crew Trainers, Conventional Maintenance Munitions Trainers, and Practical Explosive Ordnance Disposal System Trainers. FY2016 funding supports the Lot 2 option which must be exercised within 1 year of Lot 1 award to maintain pricing for Lots 3-5. The EMD contract contains options for Production Lots 1-5. For SDB I, the FY2016 budget request includes funding to procure 1,692 SDB I weapons to support current combat operations.
2. The FY2016 OCO budget request will procure approximately 63 SDB I weapons needed to replenish inventory levels.
3. Procurement quantities can change based on negotiated options/pricing bands and available funding.

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

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) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	412	1,942	63	2,005	312	460	300	900	9,634	14,023
Gross/Weapon System Cost (\$ in Millions)	0.000	-	51.298	133.697	2.520	136.217	90.621	92.401	77.151	154.555	1,361.912	1,964.155
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	0.000	-	51.298	133.697	2.520	136.217	90.621	92.401	77.151	154.555	1,361.912	1,964.155
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	51.298	133.697	2.520	136.217	90.621	92.401	77.151	154.555	1,361.912	1,964.155

(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)	-	-	0.125	0.069	0.040	0.068	0.290	0.201	0.257	0.172	0.141	0.140

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Flyaway End Item Cost																		
Recurring Cost																		
SDB Increment II All Up Round Weapon ^(†)	-	-	-	-	-	-	0.239	144	34.418	0.175	250	43.661	-	-	-	0.175	250	43.661
Weapon Containers	-	-	-	-	-	-	-	-	0.466	-	-	0.923	-	-	-	-	-	0.923
Engineering Change Orders	-	-	-	-	-	-	-	-	4.964	-	-	2.988	-	-	-	-	-	2.988
SDB Increment I ^(†)	-	-	-	-	-	-	0.040	268	10.720	0.040	1,692	67.680	0.040	63	2.520	0.040	1,755	70.200
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	50.568	-	-	115.252	-	-	2.520	-	-	117.772
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	-	-	-	-	-	-	50.568	-	-	115.252	-	-	2.520	-	-	117.772
Support - Support End Item Cost																		
Training Equipment	-	-	-	-	-	-	-	-	0.570	-	-	1.251	-	-	-	-	-	1.251
Operational Flight Program Updates & Test	-	-	-	-	-	-	-	-	-	-	-	2.195	-	-	-	-	-	2.195
Logistics Support	-	-	-	-	-	-	-	-	0.160	-	-	0.098	-	-	-	-	-	0.098
Production Testing	-	-	-	-	-	-	-	-	-	-	-	12.478	-	-	-	-	-	12.478
PMA Contractor Services	-	-	-	-	-	-	-	-	-	-	-	1.541	-	-	-	-	-	1.541
PMA Other Government Costs	-	-	-	-	-	-	-	-	-	-	-	0.882	-	-	-	-	-	0.882
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	0.730	-	-	18.445	-	-	-	-	-	18.445

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

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) : **MDAP/MAIS Code:**

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	0.000	-	-	-	0.125	412	51.298	0.069	1,942	133.697	0.040	63	2.520	0.068	2,005	136.217

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)

Flyaway - Flyaway End Item Cost

Recurring Cost																		
SDB Increment II All Up Round Weapon ^(†)	0.177	312	55.302	0.116	460	53.368	0.102	300	30.689	0.125	900	112.692	0.121	9,634	1,170.494	0.125	12,000	1,500.624
Weapon Containers	-	-	1.098	-	-	1.186	-	-	0.794	-	-	2.262	-	-	22.400	-	-	29.129
Engineering Change Orders	-	-	3.794	-	-	3.953	-	-	2.101	-	-	5.719	-	-	19.235	-	-	42.754
SDB Increment I ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.040	2,023	80.920
<i>Subtotal: Recurring Cost</i>	-	-	60.194	-	-	58.507	-	-	33.584	-	-	120.673	-	-	1,212.129	-	-	1,653.427
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	60.194	-	-	58.507	-	-	33.584	-	-	120.673	-	-	1,212.129	-	-	1,653.427

Support - Support End Item Cost

Training Equipment	-	-	0.709	-	-	0.395	-	-	0.087	-	-	-	-	-	-	-	-	3.012
Operational Flight Program Updates & Test	-	-	11.512	-	-	13.898	-	-	19.075	-	-	16.184	-	-	98.146	-	-	161.010
Logistics Support	-	-	0.220	-	-	0.179	-	-	0.207	-	-	0.187	-	-	0.959	-	-	2.010
Production Testing	-	-	15.781	-	-	17.212	-	-	22.023	-	-	14.989	-	-	40.380	-	-	122.863
PMA Contractor Services	-	-	1.343	-	-	1.287	-	-	1.307	-	-	1.520	-	-	5.294	-	-	12.292
PMA Other Government Costs	-	-	0.862	-	-	0.923	-	-	0.868	-	-	1.002	-	-	5.005	-	-	9.542
<i>Subtotal: Support - Support End Item Cost</i>	-	-	30.427	-	-	33.894	-	-	43.567	-	-	33.882	-	-	149.784	-	-	310.729
Gross/Weapon System Cost	0.290	312	90.621	0.201	460	92.401	0.257	300	77.151	0.172	900	154.555	0.141	9,634	1,361.912	0.140	14,023	1,964.155

Remarks:
SDB I Increment FY2015 OCO funding will allow for the replenishment of SDB I weapons.

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

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

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
SDB Increment II All Up Round Weapon ^(†)		2015	Raytheon / Tucson AZ	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Aug 2015	Aug 2016	144	0.239	Y		Oct 2009
SDB Increment II All Up Round Weapon ^(†)		2016	Raytheon / Tucson AZ	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Oct 2015	Apr 2017	250	0.175	Y		Oct 2009
SDB Increment II All Up Round Weapon ^(†)		2017	Raytheon / Tucson AZ	SS / FPEPA	AFLCMC/PK Eglin AFB, FL	Oct 2016	Apr 2018	312	0.177	Y		Oct 2009
SDB Increment II All Up Round Weapon ^(†)		2018	Raytheon / Tucson AZ	SS / FPEPA	AFLCMC/PK Eglin AFB, FL	Oct 2017	Apr 2019	460	0.116	Y		Oct 2009
SDB Increment II All Up Round Weapon ^(†)		2019	Raytheon / Tucson AZ	Various	AFLCMC/PK Eglin AFB, FL	Oct 2018	Apr 2020	300	0.102	Y		Oct 2009
SDB Increment II All Up Round Weapon ^(†)		2020	Raytheon / Tucson AZ	Various	AFLCMC/PK Eglin AFB, FL	Oct 2019	Apr 2021	900	0.125	N	Aug 2020	Oct 2018
SDB Increment I ^(†)		2015	Boeing / St Louis MO	SS / FFP	AFLCMC/PK Eglin AFB, FL	Jun 2015	Jun 2016	268	0.040	Y		Jan 2015
SDB Increment I - Jun 2016 ^(†)		2016	Boeing / St Louis MO	SS / FFP	AFLCMC/PK Eglin AFB, FL	Jun 2016	Jun 2017	1,692	0.040	Y		Jan 2016
SDB Increment I - Jun 2016 ^(†)	✓	2016	Boeing / St Louis MO	SS / FFP	AFLCMC/PK Eglin AFB, FL	Jun 2016	Jun 2017	63	0.040	Y		Jan 2016

^(†) indicates the presence of a P-21

Remarks:

- SDB II Lots 1-5 are options on the current EMD contract with Raytheon Missile System, Tucson, AZ which was competitively awarded in August 2010. SDB II Lots 1-3 (FY2015-FY2017) are Fixed Price Incentive Firm Target options.
- SDB II Lots 4-5 (FY2018-FY2019) are Fixed Price Not-To-Exceed pricing with an Economic Price Adjustment clause for labor and materials. These lots will be negotiated to firm fixed prior to the end of the period of performance based on the certified cost or pricing data proposals.
- SDB II Lots 1-5 specifications were defined in the EMD contract awarded in August 2010.
- ID Code A is applicable only to SDB I Increment.

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016													
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 4	BAL D U E A S O F 1 O C T	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
SDB Increment II All Up Round Weapon																															
1	2015	AF		144	-	144																									
1	2016	AF		250	-	250																									
1	2017	AF		312	-	312																									
1	2018	AF		460	-	460																									
1	2018	NAVY (‡)		90	-	90																									
1	2018	Total		550	-	550																									
1	2019	AF		300	-	300																									
1	2019	NAVY (‡)		750	-	750																									
1	2019	Total		1,050	-	1,050																									
1	2020	AF		900	-	900																									
1	2020	NAVY (‡)		750	-	750																									
1	2020	Total		1,650	-	1,650																									
SDB Increment I																															
2	2015	AF		268	-	268																									
SDB Increment I - Jun 2016																															
2	2016	AF		1,692	-	1,692																									
✓ 2	2016	AF		63	-	63																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017												Fiscal Year 2018														
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 6	BAL D U E A S O F 1 O C T	Calendar Year 2017												Calendar Year 2018												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
SDB Increment II All Up Round Weapon																															
1		2015	AF	144	24	120	12	12	12	12	12	12	12	12	12														-		
1		2016	AF	250	-	250	-	-	-	-	-	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	-		
1		2017	AF	312	-	312	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	26	26	26	26	26	156	
1		2018	AF	460	-	460																							460		
1		2018	NAVY (‡)	90	-	90																							90		
1		2018	Total	550	-	550																							550		
1		2019	AF	300	-	300																							300		
1		2019	NAVY (‡)	750	-	750																							750		
1		2019	Total	1,050	-	1,050																							1,050		
1		2020	AF	900	-	900																							900		
1		2020	NAVY (‡)	750	-	750																							750		
1		2020	Total	1,650	-	1,650																							1,650		
SDB Increment I																															
2		2015	AF	268	92	176	23	23	23	23	23	23	23	23	15														-		
SDB Increment I - Jun 2016																															
2		2016	AF	1,692	-	1,692	-	-	-	-	-	-	-	-	141	141	141	141	141	141	141	141	141	141	141	141	141	141	-		
✓ 2		2016	AF	63	-	63	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	5	5	5	5	5	5	5	-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

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

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2019												Fiscal Year 2020																
O C C #	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	B A L	
SDB Increment II All Up Round Weapon																																
1	2015	AF		144	144	-																										
1	2016	AF		250	250	-																										
1	2017	AF		312	156	156	26	26	26	26	26	26																				
1	2018	AF		460	-	460	-	-	-	-	-	-	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39				
1	2018	NAVY (‡)		90	-	90	-	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	10	10				
1	2018	Total		550	-	550	-	-	-	-	-	-	39	39	39	49	49	49	49	49	49	49	49	49	49	49	41	-				
1	2019	AF		300	-	300	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	25	25	25	25	25	150
1	2019	NAVY (‡)		750	-	750	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	62	62	62	62	62	378
1	2019	Total		1,050	-	1,050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87	87	87	87	87	87	528
1	2020	AF		900	-	900														A -	-	-	-	-	-	-	-	-	-	-	900	
1	2020	NAVY (‡)		750	-	750														A -	-	-	-	-	-	-	-	-	-	-	750	
1	2020	Total		1,650	-	1,650														-	-	-	-	-	-	-	-	-	-	-	1,650	
SDB Increment I																																
2	2015	AF		268	268	-																									-	
SDB Increment I - Jun 2016																																
2	2016	AF		1,692	1,692	-																									-	
✓ 2	2016	AF		63	63	-																									-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Air Force	Date: February 2015
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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 #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Raytheon - Tucson AZ	360	1,400	3,000	-	-	-	-	-	-	1	18	19
2	Boeing - St Louis MO	1,000	2,000	3,000	-	-	-	-	-	-	9	12	21

Remarks:
SDB II - The yearly production is below the Minimum Sustainment Rate (MSR) due to the MSR being applicable to Lot 4 and out and the programs first three LRIP quantity buys are below 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.
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 2016 Air Force **Date:** February 2015

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: 42 / 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:					Other Related Program Elements:					
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.752	0.749	0.397	-	0.397	0.987	0.931	0.801	0.816	-	5.433
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	0.752	0.749	0.397	-	0.397	0.987	0.931	0.801	0.816	-	5.433
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.752	0.749	0.397	-	0.397	0.987	0.931	0.801	0.816	-	5.433
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

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, 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 and environmental compliance (MPC 7000) efforts to ensure compliance with federal, state and local regulatory requirements. 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 Evolved Sea Sparrow, Javelin, Griffin, Phalanx, Sidewinder, Standard Missiles, Stinger, Tomahawk, and numerous other weapon systems. Funds are provided within this appropriation to assess space-related industrial base concerns (MPC 6000).

The FY2016 funding request was reduced by \$.364 million to account for the availability of prior execution balances.

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

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:** 42 / Industr'l Preparedns/Pol Prevention

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
Industrial Base Assessment (MPC 6000)	P-40a	A	- / -	- / 0.509	- / 0.510	- / 0.155	- / -	- / 0.155
Environmental Compliance (MPC 7000)	P-40a	A	- / -	- / 0.243	- / 0.239	- / 0.242	- / -	- / 0.242
Total Gross/Weapon System Cost			- / -	- / 0.752	- / 0.749	- / 0.397	- / -	- / 0.397

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
 Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
 For FY 2016, this portion of the Air Force Industrial Preparedness programs funds the environmental compliance program, MPC 7000, at Air Force Plant 44, a unique defense asset which supports the production of several missile systems for the Air Force and the Navy. It also provides funds for space-related industrial base assessments, MPC 6000.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Air Force															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 5							P-1 Line Item Number / Title: 42 / Industr'l Preparedns/Pol Prevention								Aggregated Items Title: Industr'l Preparedns/Pol Prevention				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Uncategorized																				
Industrial Base Assessment (MPC 6000)	A		-	-	-	-	-	0.509	-	-	0.510	-	-	0.155	-	-	-	-	-	0.155
Environmental Compliance (MPC 7000)	A		-	-	-	-	-	0.243	-	-	0.239	-	-	0.242	-	-	-	-	-	0.242
<i>Subtotal: Uncategorized</i>			-	-	-	-	-	0.752	-	-	0.749	-	-	0.397	-	-	-	-	-	0.397
Total			-	-	-	-	-	0.752	-	-	0.749	-	-	0.397	-	-	-	-	-	0.397

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

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, 0604851F, 0604933F **Other Related Program Elements:** 0101213F, 0303131F

Line Item MDAP/MAIS Code: 253 **Item MDAP/MAIS Code(s):**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	82.243	19.085	28.422	50.517	-	50.517	132.021	61.855	94.782	83.777	810.403	1,363.105
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	82.243	19.085	28.422	50.517	-	50.517	132.021	61.855	94.782	83.777	810.403	1,363.105
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	82.243	19.085	28.422	50.517	-	50.517	132.021	61.855	94.782	83.777	810.403	1,363.105

(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 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 FY16 is to support the operational capability of the Minuteman ICBM through 2030.

The modifications being performed on LGM-30 include: LGM-30G ICBM Fuze Modernization (Fuze), LGM-30G Launch Control Center Block Upgrade (LCCBU), LGM-30G Flight Test Telemetry and Termination System (FT3), LGM-30G Remote Visual Assessment II (RVA II), LGM-30G T-9 Launch Facility Trainer Conversion (T-9), LGM-30G A-Vault Cable Modification (ACM), LGM-30G Blast Valve Control Panel (BVCP), and Minimum Essential Emergency Communications Network (MEECN). FT3, RVA II, T-9, ACM and BVCP production are new start programs in FY16.

Funding for modifications other than MEECN are contained in PE 0101213F (PE 0604851F prior to FY15); MEECN is contained in PE 0303131F.

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

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, 0604851F, 0604933F **Other Related Program Elements:** 0101213F, 0303131F

Line Item MDAP/MAIS Code: 253 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / MM Trainer Upgrades (Other)	P-40a***		- / -	- / -	- / 10.983	- / -	- / -	- / -
2 / MINUTEMAN MEECN MODIFICATION (Capability Improvement)	P-40a***		- / 56.558	- / 16.499	- / 11.770	- / -	- / -	- / -
3 / ICBM Cryptography Upgrade Increment II (Service Life Extension)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / -
4 / MM LCC Block Upgrades (Service Life Extension)	P-40a***		- / -	- / -	- / 1.020	- / -	- / -	- / -
5 / MM III Auto Switching Unit (ASU) (Service Life Extension)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / -
6 / Airborne Launch Control System Replacement Increment I (Other)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / -
7 / Trainer Hardware/Software Upgrades (THSU) (Other)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / -
8 / LGM-30G Fast Rising B-Plug Phase II (FRBP II) (Other)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / -
9 / LGM-30G Cadmium Replacement Support Equipment (CaDRP) (Other)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / -
10 / LGM-30G A-Vault Cable Modification (ACM) (Other)	P-40a***		- / -	- / -	- / -	- / 0.350	- / -	- / 0.350
11 / LGM-30G Blast Valve Control Panel (BVCP) (Other)	P-40a***		- / -	- / -	- / -	- / 0.847	- / -	- / 0.847
12 / LGM-30G Launch Control Center Break-In-Kit (LCCB) (Other)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / -
13 / LOW COST MODIFICATIONS (Other)	P-40a***		- / 25.685	- / 2.586	- / -	- / 3.649	- / -	- / 3.649
5915 / ICBM Fuze Modernization (Service Life Extension)	P-3a		- / 0.000	- / -	- / 4.649	- / 13.700	- / -	- / 13.700
5928 / T-9 Launch Facility Trainer Conversion (T-9) (Other)	P-3a		- / -	- / -	- / -	- / 17.931	- / -	- / 17.931
5932 / LGM-30G Remote Visual Assessment Phase II (RVA II) (Other)	P-3a		- / -	- / -	- / -	- / 6.351	- / -	- / 6.351
5934 / LGM-30G Flight Test Telemetry and Termination System (FT3) (Other)	P-3a		- / -	- / -	- / -	- / 7.689	- / -	- / 7.689
Total Gross/Weapon System Cost			- / 82.243	- / 19.085	- / 28.422	- / 50.517	- / -	- / 50.517

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / MM Trainer Upgrades (Other)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 10.983
2 / MINUTEMAN MEECN MODIFICATION (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 84.827
3 / ICBM Cryptography Upgrade Increment II (Service Life Extension)	P-40a***		- / 53.820	- / 17.571	- / 20.279	- / 17.701	- / -	- / 99.371
4 / MM LCC Block Upgrades (Service Life Extension)	P-40a***		- / -	- / 16.004	- / 19.738	- / -	- / -	- / 36.762
5 / MM III Auto Switching Unit (ASU) (Service Life Extension)	P-40a***		- / -	- / 8.400	- / 17.200	- / 18.200	- / 37.400	- / 81.200
6 / Airborne Launch Control System Replacement Increment I (Other)	P-40a***		- / -	- / -	- / 16.080	- / 17.570	- / -	- / 33.650
7 / Trainer Hardware/Software Upgrades (THSU) (Other)	P-40a***		- / 0.386	- / 4.669	- / -	- / -	- / -	- / 5.055
8 / LGM-30G Fast Rising B-Plug Phase II (FRBP II) (Other)	P-40a***		- / -	- / 0.350	- / 4.000	- / 7.965	- / 7.509	- / 19.824
9 / LGM-30G Cadmium Replacement Support Equipment (CaDRP) (Other)	P-40a***		- / 1.003	- / 1.930	- / -	- / -	- / -	- / 2.933
10 / LGM-30G A-Vault Cable Modification (ACM) (Other)	P-40a***		- / 0.493	- / -	- / -	- / -	- / -	- / 0.843
11 / LGM-30G Blast Valve Control Panel (BVCP) (Other)	P-40a***		- / 1.196	- / -	- / -	- / -	- / -	- / 2.043
12 / LGM-30G Launch Control Center Break-In-Kit (LCCB) (Other)	P-40a***		- / 1.635	- / -	- / -	- / -	- / -	- / 1.635

UNCLASSIFIED

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

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, 0604851F, 0604933F **Other Related Program Elements:** 0101213F, 0303131F

Line Item MDAP/MAIS Code: 253 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
13 / LOW COST MODIFICATIONS (Other)	P-40a***		- / 3.750	- / 0.500	- / 0.500	- / 0.500	- / -	- / 37.170
5915 / ICBM Fuze Modernization (Service Life Extension)	P-3a		- / 17.387	- / 6.372	- / 9.934	- / 12.323	- / 765.494	- / 829.859
5928 / T-9 Launch Facility Trainer Conversion (T-9) (Other)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 17.931
5932 / LGM-30G Remote Visual Assessment Phase II (RVA II) (Other)	P-3a		- / 10.677	- / 12.812	- / 7.051	- / 9.518	- / -	- / 46.409
5934 / LGM-30G Flight Test Telemetry and Termination System (FT3) (Other)	P-3a		- / 41.674	- / 3.247	- / -	- / -	- / -	- / 52.610
Total Gross/Weapon System Cost			- / 132.021	- / 61.855	- / 94.782	- / 83.777	- / 810.403	- / 1,363.105

*** 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 add due to rounding.

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

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Exhibit P-3a, Individual Modification: PB 2016 Air Force										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: M30MLG / MM III Modifications						Modification Number / Title: 5915 / ICBM Fuze Modernization		

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	-	4.649	13.700	-	13.700	17.387	6.372	9.934	12.323	765.494	829.859
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	-	4.649	13.700	-	13.700	17.387	6.372	9.934	12.323	765.494	829.859
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	-	4.649	13.700	-	13.700	17.387	6.372	9.934	12.323	765.494	829.859

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	8.600	8.600
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The ICBM Fuze Modernization program will replace the current Mk21 fuze to meet warfighter requirements and maintain current capability through 2030. The program will provide needed/associated Minuteman III weapon system modifications, system testing, support equipment, data and training required to accommodate, field, and support the new Mk21 fuze along with the W87 warhead. Current Mk21 fuze quantities available do not meet USSTRATCOM requirements and the fuze is three times beyond its original ten year design life. A replacement Mk21 fuze is urgently required to meet warfighter requirements and to ensure operational capability. ICBM Fuze Modernization will procure 693 modernized fuzes. Fuzes will be delivered and placed in supply for installation by organizational/intermediate maintenance on a schedule to be determined by USSTRATCOM and AF Global Strike Command.

FY15-19 non-recurring costs include Life-of-Type Buys critical to affordably buy qualified Commercial Off-The-Shelf (COTS) parts for use during and after exposure to nuclear environments and to ensure commonality between the Air Force and the Navy. The Air Force plans to procure COTS parts common to the Minuteman III and Trident II warhead fuze programs to provide a pool of interchangeable, qualified, and certified parts. Procured parts will be delivered to the National Nuclear Security Agency's National Security Campus (formerly Kansas City Plant) 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 subassemblies. FY19-20 include recurring costs for long-lead purchases for production deliveries beginning in FY22.

Milestone/Development Status

The program has entered Phase 6.3 Developmental Engineering which will complete in FY19. The follow-on Phase 6.4 Production Engineering will complete development in FY21. Research, Development, Test and Evaluation (RDT&E) is contained in Program Element 0604933F. The program is tailored to use the joint DoD-DOE Phase 6.X processes for routine nuclear stockpile activities to align with Navy and National Nuclear Security Administration (NNSA) operations.

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Exhibit P-3a, Individual Modification: PB 2016 Air Force										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1					P-1 Line Item Number / Title: M30MLG / MM III Modifications					Modification Number / Title: 5915 / ICBM Fuze Modernization			
Models of Systems Affected: LGM-30G				Modification Type: Service Life Extension				Related RDT&E PEs: 0604933F					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	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	- / 117.224	- / 76.553	3 / 59.826	12 / 142.551	- / -	12 / 142.551	10 / 140.973	7 / 180.205	16 / 169.655	24 / 159.157	16 / 143.220	88 / 1,189.364	
Procurement													
<i>Modification Item 1 of 1: ICBM Fuze</i>													
B Kits													
Recurring													
ICBM Fuze:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 9.383	687 / 596.045	693 / 605.428	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.383	- / 596.045	- / 605.428	
<i>Subtotal: ICBM Fuze</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.383	- / 596.045	- / 605.428	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.383	- / 596.045	- / 605.428	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / 4.649	- / 13.700	- / -	- / 13.700	- / 17.387	- / 6.372	- / 9.934	- / -	- / 4.559	- / 56.601	
Change Orders	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.395	- / 19.898	- / 20.293	
SIM/TRAINER	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 0.600	16 / 0.600	
OTHER GOVT	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.750	- / 105.038	- / 106.788	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.795	- / 39.354	- / 40.149	
<i>Subtotal: Support</i>	- / -	- / -	- / 4.649	- / 13.700	- / -	- / 13.700	- / 17.387	- / 6.372	- / 9.934	- / 2.940	16 / 169.449	16 / 224.431	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	4.649	13.700	-	13.700	17.387	6.372	9.934	12.323	765.494	829.859	

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Exhibit P-3a, Individual Modification: PB 2016 Air Force	Date: February 2015
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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: 5915 / ICBM Fuze Modernization
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Modification Item 1 of 1: ICBM Fuze

Manufacturer Information

Manufacturer Name: Sandia National Labs	Manufacturer Location: Albuquerque, NM
Administrative Leadtime (<i>in Months</i>): 4	Production Leadtime (<i>in Months</i>): 18

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							Feb 2020
Delivery Dates							Aug 2021

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 693
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Air Force							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: M30MLG / MM III Modifications				Modification Number / Title: 5928 / T-9 Launch Facility Trainer Conversion (T-9)				

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	17.931	-	17.931	-	-	-	-	-	17.931
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	-	-	17.931	-	17.931	-	-	-	-	-	17.931
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	17.931	-	17.931	-	-	-	-	-	17.931
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

LGM-30G T-9 Launch Facility Trainer Conversion (T-9) modifies Launch Facility (LF) trainer at Malmstrom AFB to current Minuteman configuration necessary to support maintenance training for Missile, Facilities and Electro-mechanical Maintenance Team technicians. T-9 will reduce reliance on workarounds using non-training LF assets improving efficiency and reducing costs related to training. Required modifications will be performed by contractor, organizational and intermediate maintenance teams. In FY16, T-9 is a new start.

Milestone/Development Status

No development effort is required for this modification.

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Exhibit P-3a, Individual Modification: PB 2016 Air Force										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1					P-1 Line Item Number / Title: M30MLG / MM III Modifications					Modification Number / Title: 5928 / T-9 Launch Facility Trainer Conversion (T-9)			
Models of Systems Affected: LGM-30G				Modification Type: Other				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1: T-9</i>													
B Kits													
Recurring													
T-9:EQUIPMENT Group B (Active)													
	-	-	-	1 / 15.768	-	-	1 / 15.768	-	-	-	-	-	1 / 15.768
<i>Subtotal: Recurring</i>													
	-	-	-	- / 15.768	-	-	- / 15.768	-	-	-	-	-	- / 15.768
<i>Subtotal: T-9</i>													
	-	-	-	- / 15.768	-	-	- / 15.768	-	-	-	-	-	- / 15.768
<i>Subtotal: Procurement, All Modification Items</i>													
	-	-	-	- / 15.768	-	-	- / 15.768	-	-	-	-	-	- / 15.768
Support (All Modification Items)													
Change Orders													
	-	-	-	- / 1.225	-	-	- / 1.225	-	-	-	-	-	- / 1.225
PMA - Other Gov't Costs													
	-	-	-	- / 0.938	-	-	- / 0.938	-	-	-	-	-	- / 0.938
<i>Subtotal: Support</i>													
	-	-	-	- / 2.163	-	-	- / 2.163	-	-	-	-	-	- / 2.163
Installation													
<i>Subtotal: Installation</i>													
	-	-	-	-	-	-	-	-	-	-	-	-	-
Total													
Total Cost (Procurement + Support + Installation)													
	-	-	-	17.931	-	17.931	-	-	-	-	-	-	17.931

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Exhibit P-3a, Individual Modification: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: M30MLG / MM III Modifications	Modification Number / Title: 5928 / T-9 Launch Facility Trainer Conversion (T-9)

Modification Item 1 of 1: T-9

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 24

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Apr 2016				
Delivery Dates			Apr 2018				

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 1
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Air Force							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: M30MLG / MM III Modifications				Modification Number / Title: 5932 / LGM-30G Remote Visual Assessment Phase II (RVA II)				

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	6.351	-	6.351	10.677	12.812	7.051	9.518	-	46.409
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	-	-	6.351	-	6.351	10.677	12.812	7.051	9.518	-	46.409
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	6.351	-	6.351	10.677	12.812	7.051	9.518	-	46.409
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

LGM-30G Remote Visual Assessment (RVA II) will improve user capability and provide enhanced situational awareness, and meet DoD Cyber Security requirements. Additionally, these capabilities will provide the RVA feed to the fielded ground vehicles, helicopters, backup power, and provide auto-activation of the Outer Zone /Inner Zone (OZ/IZ) alarms to the RVA system. FY16 funds will be used to purchase long lead items to begin kit build in FY17. In FY16, RVA II is a new start.

Milestone/Development Status

RVA II is a FY16 RDT&E New Start.

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Exhibit P-3a, Individual Modification: PB 2016 Air Force										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1					P-1 Line Item Number / Title: M30MLG / MM III Modifications					Modification Number / Title: 5932 / LGM-30G Remote Visual Assessment Phase II (RVA II)			
Models of Systems Affected: LGM-30G				Modification Type: Other				Related RDT&E PEs: 0101213F					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	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	- / -	- / -	- / -	- / 3.824	- / -	- / 3.824	- / 2.939	- / -	- / -	- / -	- / -	- / 6.763	
Procurement													
<i>Modification Item 1 of 1: RVA II</i>													
B Kits													
Recurring													
RVA II: EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / -	- / -	- / -	40 / 10.677	615 / 12.812	540 / 7.051	428 / 9.518	- / -	1,623 / 40.058	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.677	- / 12.812	- / 7.051	- / 9.518	- / -	- / 40.058	
<i>Subtotal: RVA II</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.677	- / 12.812	- / 7.051	- / 9.518	- / -	- / 40.058	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.677	- / 12.812	- / 7.051	- / 9.518	- / -	- / 40.058	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 6.351	- / -	- / 6.351	- / -	- / -	- / -	- / -	- / -	- / 6.351	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 6.351	- / -	- / 6.351	- / -	- / -	- / -	- / -	- / -	- / 6.351	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	6.351	-	6.351	10.677	12.812	7.051	9.518	-	46.409	

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Exhibit P-3a, Individual Modification: PB 2016 Air Force					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30MLG / MM III Modifications		Modification Number / Title: 5932 / LGM-30G Remote Visual Assessment Phase II (RVA II)		
<i>Modification Item 1 of 1:</i> RVA II							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>): 2				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates				Jan 2017	Jan 2018	Jan 2019	Jan 2020
Delivery Dates				Jul 2017	Jul 2018	Jul 2019	Jul 2020
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 1623		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Air Force							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: M30MLG / MM III Modifications				Modification Number / Title: 5934 / LGM-30G Flight Test Telemetry and Termination System (FT3)				

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	7.689	-	7.689	41.674	3.247	-	-	-	52.610
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	-	-	7.689	-	7.689	41.674	3.247	-	-	-	52.610
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	7.689	-	7.689	41.674	3.247	-	-	-	52.610
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

LGM-30G Flight Test Telemetry and Termination (FT3), will replace the current flight destruct capability on MM III used during Operational Test Launches (OTLs) . The current system is becoming unsupportable and does not meet updated Range Safety Standards.

FY16 funding will support procurement of FT3 long lead items. Several critical components were identified during market research as having lead times in excess of 18 months.

Milestone/Development Status

Full development for FT3 use on MM III OTLs will begin in FY15 (Reference PE 0101213F, Minuteman Squadron) and complete with transition to production in FY16. Long lead items will be procured with FY16 funds with production delivery starting in FY17.

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Exhibit P-3a, Individual Modification: PB 2016 Air Force										Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1					P-1 Line Item Number / Title: M30MLG / MM III Modifications					Modification Number / Title: 5934 / LGM-30G Flight Test Telemetry and Termination System (FT3)				
Models of Systems Affected: LGM-30G				Modification Type: Other				Related RDT&E PEs: 0101213F						
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total		
	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	- / -	- / -	- / 16.434	- / 29.325	- / -	- / 29.325	7 / 25.671	- / 26.877	- / 15.300	- / -	- / -	7 / 113.607		
Procurement														
<i>Modification Item 1 of 1: FT3</i>														
B Kits														
Recurring														
FT3:EQUIPMENT Group B (Active)	- / -	- / -	- / -	- / 17.639	- / -	- / 17.639	8 / 41.424	4 / 3.147	- / -	- / -	- / -	12 / 52.210		
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 17.639	- / -	- / 17.639	- / 41.424	- / 3.147	- / -	- / -	- / -	- / 52.210		
<i>Subtotal: FT3</i>	- / -	- / -	- / -	- / 17.639	- / -	- / 17.639	- / 41.424	- / 3.147	- / -	- / -	- / -	- / 52.210		
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 17.639	- / -	- / 17.639	- / 41.424	- / 3.147	- / -	- / -	- / -	- / 52.210		
Support (All Modification Items)														
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 10.050	- / -	- / 10.050	- / 10.250	- / 10.100	- / -	- / -	- / -	- / 10.400		
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 10.050	- / -	- / 10.050	- / 10.250	- / 10.100	- / -	- / -	- / -	- / 10.400		
Installation														
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -		
Total														
Total Cost (Procurement + Support + Installation)	-	-	-	7.689	-	7.689	41.674	3.247	-	-	-	52.610		

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Exhibit P-3a, Individual Modification: PB 2016 Air Force					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30MLG / MM III Modifications		Modification Number / Title: 5934 / LGM-30G Flight Test Telemetry and Termination System (FT3)		
Modification Item 1 of 1: FT3							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 5			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates				Jan 2017	Jan 2018		
Delivery Dates				Jun 2017	Jun 2018		
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 12		

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

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) :	Program Elements for Code B Items:	Other Related Program Elements:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	0.276	0.276	9.639	5.720	15.359	0.284	0.290	0.294	0.299	-	17.078
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	0.000	0.276	0.276	9.639	5.720	15.359	0.284	0.290	0.294	0.299	-	17.078
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	0.000	0.276	0.276	9.639	5.720	15.359	0.284	0.290	0.294	0.299	-	17.078

(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:

FY16 funding totals include \$5.720M requested for Overseas Contingency Operations.

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 modification program is with Raytheon Missile Systems. Additional baseline Maverick missiles will be modified to Laser Maverick missiles with accrued Foreign Military Sales (FMS) exchange credits up to a total of 450 all-up-round AGM-65L Maverick missiles.

The FY2016 budget request includes funding for modifications of legacy AGM-65 Maverick missiles to Laser Maverick missiles and AGM-65L training assets. Base funds will modify up to 69 baseline missiles to Laser Maverick missiles. The FY2016 Overseas Contingency Operation (OCO) request will modify approximately 43 baseline missiles to Laser Maverick missiles to replenish the Laser Maverick missiles expended in current combat operations.

Mod650003 is not a new start in FY16. Funding moved from Mod650002 to Mod650003 in FY16 to better describe the Laser Maverick effort.

Funding for this exhibit contained in PE 0207313F.

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

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

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

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / AGM-65 B TO H UPGRADES (Service Life Extension)	P-40a***		- / 0.000	- / 0.276	- / 0.276	- / -	- / -	- / -
2 / AGM-65 Maverick (Service Life Extension)	P-40a***		- / -	- / -	- / -	- / 9.639	- / 5.720	- / 15.359
Total Gross/Weapon System Cost			- / 0.000	- / 0.276	- / 0.276	- / 9.639	- / 5.720	- / 15.359
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / AGM-65 B TO H UPGRADES (Service Life Extension)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 0.552
2 / AGM-65 Maverick (Service Life Extension)	P-40a***		- / 0.284	- / 0.290	- / 0.294	- / 0.299	- / -	- / 16.526
Total Gross/Weapon System Cost			- / 0.284	- / 0.290	- / 0.294	- / 0.299	- / -	- / 17.078

*** 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 add due to rounding.

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

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

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:**
 M88AAG / AGM-88A Harm

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements: 0207136F				
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	71.101	0.580	0.297	0.197	-	0.197	-	-	-	-	-	72.175
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	71.101	0.580	0.297	0.197	-	0.197	-	-	-	-	-	72.175
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	71.101	0.580	0.297	0.197	-	0.197	-	-	-	-	-	72.175
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AGM-88 High Speed Anti-Radiation Missile (HARM) is designed to target and destroy threat radar installations and transmitters. The Air Force modification effort of the AGM-88 HARM Control Section Modification adds a Global Positioning System (GPS) receiver and an improved Inertial Measurement Unit (IMU) to improve the missile's capability for the Destruction of Enemy Air Defenses (DEAD) mission.

Funding for this exhibit contained in PE 0207162F.

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

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:**
M88AAG / AGM-88A Harm

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0207136F

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / HARM Control Section Modification (Capability Improvement)	P-40a***		- / 71.101	- / 0.580	- / 0.297	- / 0.197	- / -	- / 0.197
Total Gross/Weapon System Cost			- / 71.101	- / 0.580	- / 0.297	- / 0.197	- / -	- / 0.197
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / HARM Control Section Modification (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 72.175
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 72.175

*** 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 add due to rounding.

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

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

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, 0101125F	Other Related Program Elements: 0101122F
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	114.524	6.888	16.083	25.019	-	25.019	15.785	15.395	17.836	3.894	3.737	219.161
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	114.524	6.888	16.083	25.019	-	25.019	15.785	15.395	17.836	3.894	3.737	219.161
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	114.524	6.888	16.083	25.019	-	25.019	15.785	15.395	17.836	3.894	3.737	219.161

(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 PE11122F.

FY16 is the first year of production for Service Life Extension Program 3.

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

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, 0101125F **Other Related Program Elements:** 0101122F

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / LOW COST MODIFICATIONS (Other)	P-40a***		- / 1.288	- / 0.025	- / 0.101	- / 0.130	- / -	- / 0.130
2 / AGM-86B TRAINERS (Other)	P-40a***		- / 2.251	- / -	- / -	- / -	- / -	- / -
3 / AGM-86B SERVICE LIFE EXTENSION PROGRAM (Service Life Extension)	P-40a***		- / 5.538	- / 1.244	- / 1.245	- / 0.015	- / -	- / 0.015
4 / Electronic System Test Set (Service Life Extension)	P-40a***		- / 4.991	- / -	- / -	- / -	- / -	- / -
2783 / AGM-86B SERVICE LIFE EXTENSION PROGRAM 2 (Service Life Extension)	P-3a		- / 13.004	- / 5.619	- / 11.470	- / 10.572	- / -	- / 10.572
860004 / CATIK PAYLOAD DOOR (Capability Improvement)	P-3a		- / 87.452	- / -	- / 3.267	- / 10.059	- / -	- / 10.059
860006 / Service Life Extension Program 3 (Service Life Extension)	P-3a		- / -	- / -	- / -	- / 4.243	- / -	- / 4.243
Total Gross/Weapon System Cost			- / 114.524	- / 6.888	- / 16.083	- / 25.019	- / -	- / 25.019

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / LOW COST MODIFICATIONS (Other)	P-40a***		- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- / 1.944
2 / AGM-86B TRAINERS (Other)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 2.251
3 / AGM-86B SERVICE LIFE EXTENSION PROGRAM (Service Life Extension)	P-40a***		- / 0.015	- / -	- / -	- / -	- / -	- / 8.057
4 / Electronic System Test Set (Service Life Extension)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 4.991
2783 / AGM-86B SERVICE LIFE EXTENSION PROGRAM 2 (Service Life Extension)	P-3a		- / 11.080	- / 11.345	- / 4.531	- / 0.037	- / 0.039	- / 67.697
860004 / CATIK PAYLOAD DOOR (Capability Improvement)	P-3a		- / 0.790	- / -	- / 9.027	- / -	- / -	- / 110.595
860006 / Service Life Extension Program 3 (Service Life Extension)	P-3a		- / 3.800	- / 3.950	- / 4.178	- / 3.757	- / 3.698	- / 23.626
Total Gross/Weapon System Cost			- / 15.785	- / 15.395	- / 17.836	- / 3.894	- / 3.737	- / 219.161

*** 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 add due to rounding.

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

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Exhibit P-3a, Individual Modification: PB 2016 Air Force							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)				Modification Number / Title: 2783 / AGM-86B SERVICE LIFE EXTENSION PROGRAM 2				

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	13.004	5.619	11.470	10.572	-	10.572	11.080	11.345	4.531	0.037	0.039	67.697
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	13.004	5.619	11.470	10.572	-	10.572	11.080	11.345	4.531	0.037	0.039	67.697
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	13.004	5.619	11.470	10.572	-	10.572	11.080	11.345	4.531	0.037	0.039	67.697
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

AF Long Range Planning required the service life of the ALCM be extended to 2030. In order to satisfy the life extension requirement, several phases of the Service Life Extension Program (SLEP) were implemented. Through several studies and surveillance and analysis programs, various components were identified as candidates for replacement due to aging and obsolescence issues before they became a fleet-wide problem. This modification executes SLEP 2, using separate contractual vehicles to replace three critical components with refurbished components: Warhead Arming Device (WAD), Rotary Switch, and Guided Missile Flight Controller (GMFC). Up to 24 SLEP 2 kits per year will be delivered to the depot for installation in conjunction with Analytical Condition Inspection (ACI) missiles. The remaining SLEP 2 kits will be delivered to the organizational-level maintenance personnel for installation via Time Compliance Technical Order (TCTO) in conjunction with scheduled maintenance activities. Service life extension of this critical weapon is essential to meet Air Force Global Strike Command (AFGSC) and United States Strategic Command (USSTRATCOM) commitments. A total of 569 kits are funded FY12-FY20 for modification in this program. Program procurement and funding requirements have been extended due to on-going aging and surveillance efforts identifying additional technical issues with all three SLEP 2 components. It is important to resolve these issues before moving forward. Due to a contractual purchasing limit of 77 kits in FY14 only, a multiple fund purchase was made (17 FY12 funded kits; 60 FY13 funded kits). Another multiple fund purchase of 76 kits will be made in FY15 (27 FY13 funded kits; 49 FY14 funded kits). Prior year purchases enables SLEP 2 installs to begin 4th quarter FY15.

Milestone/Development Status

Engineering studies and analysis programs identified SLEP 2 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 (OEM).

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Exhibit P-3a, Individual Modification: PB 2016 Air Force										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)						Modification Number / Title: 2783 / AGM-86B SERVICE LIFE EXTENSION PROGRAM 2			
Models of Systems Affected: AGM-86B				Modification Type: Service Life Extension				Related RDT&E PEs: 0101122F					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	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: SLEP 2 Depot</i>													
B Kits													
Recurring													
SLEP 2 Depot:EQUIPMENT Group B (Active)	6 / 1.080	24 / 2.807	24 / 2.921	24 / 2.688	- / -	24 / 2.688	24 / 2.832	24 / 2.866	24 / 2.701	- / -	- / -	150 / 17.895	
<i>Subtotal: Recurring</i>	- / 1.080	- / 2.807	- / 2.921	- / 2.688	- / -	- / 2.688	- / 2.832	- / 2.866	- / 2.701	- / -	- / -	- / 17.895	
<i>Subtotal: SLEP 2 Depot</i>	- / 1.080	- / 2.807	- / 2.921	- / 2.688	- / -	- / 2.688	- / 2.832	- / 2.866	- / 2.701	- / -	- / -	- / 17.895	
<i>Modification Item 2 of 2: SLEP 2 Organic</i>													
B Kits													
Recurring													
SLEP 2 Organic:EQUIPMENT Group B (Active)	98 / 11.678	25 / 2.807	70 / 8.533	70 / 7.854	- / -	70 / 7.854	70 / 8.218	70 / 8.454	16 / 1.805	- / -	- / -	419 / 49.349	
<i>Subtotal: Recurring</i>	- / 11.678	- / 2.807	- / 8.533	- / 7.854	- / -	- / 7.854	- / 8.218	- / 8.454	- / 1.805	- / -	- / -	- / 49.349	
<i>Subtotal: SLEP 2 Organic</i>	- / 11.678	- / 2.807	- / 8.533	- / 7.854	- / -	- / 7.854	- / 8.218	- / 8.454	- / 1.805	- / -	- / -	- / 49.349	
<i>Subtotal: Procurement, All Modification Items</i>	- / 12.758	- / 5.614	- / 11.454	- / 10.542	- / -	- / 10.542	- / 11.050	- / 11.320	- / 4.506	- / -	- / -	- / 67.244	
Support (All Modification Items)													
OTHER GOVT	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.012	- / 0.014	- / 0.026	
PMA - Other Gov't Costs	- / 0.002	- / 0.005	- / 0.008	- / 0.005	- / -	- / 0.005	- / 0.005	- / -	- / -	- / -	- / -	- / 0.025	
A&AS	- / 0.244	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.244	
<i>Subtotal: Support</i>	- / 0.246	- / 0.005	- / 0.008	- / 0.005	- / -	- / 0.005	- / 0.005	- / -	- / -	- / 0.012	- / 0.014	- / 0.295	
Installation													
<i>Modification Item 1 of 2: SLEP 2 Depot</i>	- / -	- / -	6 / 0.008	24 / 0.025	- / -	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	150 / 0.158	
<i>Subtotal: Installation</i>	- / -	- / -	6 / 0.008	24 / 0.025	- / -	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	150 / 0.158	
Total													
Total Cost (Procurement + Support + Installation)	13.004	5.619	11.470	10.572	-	10.572	11.080	11.345	4.531	0.037	0.039	67.697	

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Exhibit P-3a, Individual Modification: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)	Modification Number / Title: 2783 / AGM-86B SERVICE LIFE EXTENSION PROGRAM 2

Modification Item 1 of 2: SLEP 2 Depot

Manufacturer Information

Manufacturer Name: Boeing Guidance and Repair Center (BGRC)	Manufacturer Location: Heath, OH
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 14

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	May 2014	May 2015	May 2016	May 2017	May 2018	May 2019	
Delivery Dates	Jul 2015	Jul 2016	Jul 2017	Jul 2018	Jul 2019	Jul 2020	

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	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	- / -	- / -	6 / 0.008	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.008
FY 2014	- / -	- / -	- / -	24 / 0.025	- / -	24 / 0.025	- / -	- / -	- / -	- / -	- / -	24 / 0.025
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.025	- / -	- / -	- / -	- / -	24 / 0.025
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.025	- / -	- / -	- / -	24 / 0.025
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.025	- / -	- / -	24 / 0.025
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.025	- / -	24 / 0.025
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.025	24 / 0.025
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	6 / 0.008	24 / 0.025	- / -	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	150 / 0.158

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	24	150
Out	0	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	24	150

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Exhibit P-3a, Individual Modification: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)	Modification Number / Title: 2783 / AGM-86B SERVICE LIFE EXTENSION PROGRAM 2

Modification Item 2 of 2: SLEP 2 Organic

Manufacturer Information

Manufacturer Name: BGRC				Manufacturer Location: Heath, OH			
Administrative Leadtime (in Months): 0				Production Leadtime (in Months): 14			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	May 2014	May 2015	May 2016	May 2017	May 2018	May 2019	
Delivery Dates	Jul 2015	Jul 2016	Jul 2017	Jul 2018	Jul 2019	Jul 2020	

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 419
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Exhibit P-3a, Individual Modification: PB 2016 Air Force							Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)				Modification Number / Title: 860004 / CATIK PAYLOAD DOOR				

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	87.452	-	3.267	10.059	-	10.059	0.790	-	9.027	-	-	110.595
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	87.452	-	3.267	10.059	-	10.059	0.790	-	9.027	-	-	110.595
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	87.452	-	3.267	10.059	-	10.059	0.790	-	9.027	-	-	110.595

(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:

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. This program reflects the procurement of the Conventional/Air Launched Cruise Missile (CALCM)/ALCM Test Instrumentation Kit (CATIK) payload door and battery sets. CATIK payload doors consist of telemetry, tracking, flight termination, and power subsystems to support continued flight testing. CATIK payload doors are used to gather flight/ground test data that is critical to determining Weapon System Reliability (WSR) of the ALCM. The CATIK is a temporary modification kit (T-2) only installed for flight test. Additional test missiles configured to support Nuclear Weapon System Evaluation Program (NucWSEP) are de-configured after the primary missile is launched. The CATIK doors are removed from the ALCM and reserved to support future flight test. The CATIKs on the launched missiles are consumed/destroyed when the missile explodes/crashes into the ground. 6 CATIKs are consumed each year to support ALCM flight test program. AFGSC 1067 Control NO 10-028 dated 10 Sept 10 established the requirement for 66 additional CATIKs to sustain ALCM to 2030. Future CATIK production efforts will be required to support ALCM flight testing to 2028. The approved acquisition strategy is to purchase 12 CATIKs every other year. Funding realigned from SLEP 1 and SLEP 2 leveraged to existing contract to make economic order quantity purchase in FY13. CATIK Battery Set - The current activity includes purchase of CATIK Battery Sets. Battery Sets were not procured with the original contract for 74 payload doors because they have a limited life of five years. Battery sets are required for the use of CATIK doors during flight test. The set consists of the Flight Termination System (FTS) battery and instrumentation battery. The FTS battery powers the FTS which serves as a measure of last resort to abort the missile flight during the test process. The instrumentation battery powers the CATIK telemetry systems, used to gather and record flight data during the actual flight test. Currently, there is a two-year lead time after receipt of order for CATIK battery set delivery. CATIK battery sets are in the support equipment line. Battery sets are planned for procurement in FY16 and FY17. KGV/KGR-135A Encryption/Decryption - The current activity will also modify CATIK components and associated equipment to support integration of new KGV/KGR 135A Encryption/Decryption chips. The National Security Agency (NSA) is phasing out the old -68B Encryption/Decryption chips due to crypto modernization. To ensure continued support of the ALCM, the Missile System Division has acquired a waiver from NSA that supports use of current KGV/KGR 68B chips to a future date; provides sufficient time to integrate the new KGV/KGR-135A chips into the CATIK and associated ground equipment. A contract modification to integrate KGV/KGR-135A Chips into CATIK and test equipment was awarded in Aug 14. Encryption/Decryption units are planned for procurement in FY16 change orders.

Milestone/Development Status

Development of the existing CATIK doors was completed in FY05.

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Exhibit P-3a, Individual Modification: PB 2016 Air Force										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1					P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)					Modification Number / Title: 860004 / CATIK PAYLOAD DOOR			
Models of Systems Affected: AGM-86B				Modification Type: Capability Improvement				Related RDT&E PEs: 0101122F					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	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: CATIKS</i>													
B Kits													
Recurring													
CATIKS:EQUIPMENT Group B (Active)	91 / 63.977	- / -	- / -	12 / 10.059	- / -	12 / 10.059	- / -	- / -	12 / 9.027	- / -	- / -	115 / 83.063	
<i>Subtotal: Recurring</i>	- / 63.977	- / -	- / -	- / 10.059	- / -	- / 10.059	- / -	- / -	- / 9.027	- / -	- / -	- / 83.063	
<i>Subtotal: CATIKS</i>	- / 63.977	- / -	- / -	- / 10.059	- / -	- / 10.059	- / -	- / -	- / 9.027	- / -	- / -	- / 83.063	
<i>Subtotal: Procurement, All Modification Items</i>	- / 63.977	- / -	- / -	- / 10.059	- / -	- / 10.059	- / -	- / -	- / 9.027	- / -	- / -	- / 83.063	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 1.767	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.767	
Change Orders	- / 2.786	- / -	33 / 2.334	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / 5.120	
Data	- / 1.691	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.691	
SIM/TRAINER	0 / 1.761	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.761	
SUPPORT-EQUIP	74 / 15.470	- / -	12 / 0.933	- / -	- / -	- / -	12 / 0.790	- / -	- / -	- / -	- / -	98 / 17.193	
<i>Subtotal: Support</i>	74 / 23.475	- / -	45 / 3.267	- / -	- / -	- / -	12 / 0.790	- / -	- / -	- / -	- / -	131 / 27.532	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	87.452	-	3.267	10.059	-	10.059	0.790	-	9.027	-	-	110.595	

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Exhibit P-3a, Individual Modification: PB 2016 Air Force	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)	Modification Number / Title: 860004 / CATIK PAYLOAD DOOR
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Modification Item 1 of 1: CATIKS

Manufacturer Information

Manufacturer Name: Boeing Company	Manufacturer Location: Seattle, WA
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 24
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Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Jun 2016			May 2019	
Delivery Dates			Jun 2018			May 2021	

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 115
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Exhibit P-3a, Individual Modification: PB 2016 Air Force							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)				Modification Number / Title: 860006 / Service Life Extension Program 3				

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	-	4.243	-	4.243	3.800	3.950	4.178	3.757	3.698	23.626
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	-	-	-	4.243	-	4.243	3.800	3.950	4.178	3.757	3.698	23.626
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	4.243	-	4.243	3.800	3.950	4.178	3.757	3.698	23.626
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

AF Long Range Planning required the service life of the ALCM be extended to 2030. In order to satisfy the life extension requirement, several phases of the Service Life Extension Program (SLEP) were implemented. Through several studies and surveillance and analysis programs, various components were identified as candidates for replacement due to aging and obsolescence issues before they became a fleet-wide problem. This modification executes SLEP 3, using separate contractual vehicles to replace two components with re-manufactured components: W-10 Ordnance Cable and the Impact Sensor. Up to 24 SLEP 3 kits per year will be delivered to the depot for installation in conjunction with Analytical Condition Inspection (ACI) missiles. The remaining SLEP 3 kits will be delivered to the organizational-level maintenance personnel for installation via Time Compliance Technical Order (TCTO) in conjunction with scheduled maintenance activities. Service life extension of this critical weapon is essential to meet Air Force Global Strike Command (AFGSC) and United States Strategic Command (USSTRATCOM) commitments. A total of 545 missiles are funded FY16-FY21 for modification in this program. The installation cost section applies to kits being installed at the Depot (ACIs) and Field installations. FY16 is the first production year for SLEP 3.

Milestone/Development Status

Engineering studies and analysis programs identified SLEP 3 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 (OEM).

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Exhibit P-3a, Individual Modification: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)	Modification Number / Title: 860006 / Service Life Extension Program 3

Models of Systems Affected: AGM-86B	Modification Type: Service Life Extension	Related RDT&E PEs: 0101122F
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Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	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: SLEP 3 Depot</i>												
B Kits												
Recurring												
SLEP 3 Depot:EQUIPMENT Group B (Active)	- / -	- / -	- / -	24 / 0.903	- / -	24 / 0.903	24 / 0.903	24 / 0.903	24 / 0.903	24 / 0.903	24 / 0.903	144 / 5.418
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.903	- / -	- / 0.903	- / 0.903	- / 0.903	- / 0.903	- / 0.903	- / 0.903	- / 5.418
<i>Subtotal: SLEP 3 Depot</i>	- / -	- / -	- / -	- / 0.903	- / -	- / 0.903	- / 0.903	- / 0.903	- / 0.903	- / 0.903	- / 0.903	- / 5.418
<i>Modification Item 2 of 2: SLEP 3 Organic</i>												
B Kits												
Recurring												
SLEP 3 Organic:EQUIPMENT Group B (Active)	- / -	- / -	- / -	70 / 2.634	- / -	70 / 2.634	70 / 2.603	70 / 2.744	70 / 2.965	58 / 2.535	63 / 2.371	401 / 15.852
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 2.634	- / -	- / 2.634	- / 2.603	- / 2.744	- / 2.965	- / 2.535	- / 2.371	- / 15.852
<i>Subtotal: SLEP 3 Organic</i>	- / -	- / -	- / -	- / 2.634	- / -	- / 2.634	- / 2.603	- / 2.744	- / 2.965	- / 2.535	- / 2.371	- / 15.852
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 3.537	- / -	- / 3.537	- / 3.506	- / 3.647	- / 3.868	- / 3.438	- / 3.274	- / 21.270
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 0.501	- / -	- / 0.501	- / -	- / -	- / -	- / -	- / -	- / 0.501
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.005	- / -	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / 0.005
Mod of Spares	- / -	- / -	- / -	9 / 0.200	- / -	9 / 0.200	9 / 0.205	9 / 0.212	9 / 0.218	9 / 0.225	9 / 0.231	54 / 1.291
<i>Subtotal: Support</i>	- / -	- / -	- / -	9 / 0.706	- / -	9 / 0.706	9 / 0.205	9 / 0.212	9 / 0.218	9 / 0.225	9 / 0.231	54 / 1.797
Installation												
<i>Modification Item 1 of 2: SLEP 3 Depot</i>	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.089	24 / 0.091	24 / 0.092	24 / 0.094	48 / 0.193	144 / 0.559
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.089	24 / 0.091	24 / 0.092	24 / 0.094	48 / 0.193	144 / 0.559
Total												
Total Cost (Procurement + Support + Installation)	-	-	-	4.243	-	4.243	3.800	3.950	4.178	3.757	3.698	23.626

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Exhibit P-3a, Individual Modification: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)	Modification Number / Title: 860006 / Service Life Extension Program 3

Modification Item 1 of 2: SLEP 3 Depot

Manufacturer Information

Manufacturer Name: Boeing Guidance and Repair Center (BGRC)	Manufacturer Location: Heath, OH
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 1

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Aug 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020
Delivery Dates			Sep 2016	May 2017	May 2018	May 2019	May 2020

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	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 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.089	- / -	- / -	- / -	- / -	24 / 0.089
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.091	- / -	- / -	- / -	24 / 0.091
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.092	- / -	- / -	24 / 0.092
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.094	- / -	24 / 0.094
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.096	24 / 0.096
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.097	24 / 0.097
Total	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.089	24 / 0.091	24 / 0.092	24 / 0.094	48 / 0.193	144 / 0.559

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				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	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	48	144
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	48	144

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Exhibit P-3a, Individual Modification: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1	P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)	Modification Number / Title: 860006 / Service Life Extension Program 3

Modification Item 2 of 2: SLEP 3 Organic

Manufacturer Information

Manufacturer Name: BGRC				Manufacturer Location: Heath, OH			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 1			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Aug 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020
Delivery Dates			Sep 2016	May 2017	May 2018	May 2019	May 2020

Installation Information

Method of Implementation (Organic): Org/Intermediate	Installation Quantity: 401
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Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force **Date:** February 2015

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: SDB000 / Small Diameter Bomb
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items: 0207327F	Other Related Program Elements:
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Line Item MDAP/MAIS Code: 439	Item MDAP/MAIS Code(s):
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4.976	4.000	6.924	-	-	-	-	-	-	-	-	15.900
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	4.976	4.000	6.924	-	-	-	-	-	-	-	-	15.900
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4.976	4.000	6.924	-	-	-	-	-	-	-	-	15.900

(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:

GBU-39/B: Small Diameter Bomb I (SDB I) is a weapon system that provides fighter and bomber aircraft with a tactically significant standoff attack or direct attack/close air support capability from outside point defenses, against fixed/stationary targets. The SDB I weapon system consists of a 250-pound class weapon, a 4-place common carriage system, logistics support and mission planning module. The FY2015 modifications are to the bomb rack unit (BRU-61/A) carriages and adds capability to operate on 270 volts direct current (VDC) aircraft power, as well as the current configuration's 115 volts alternating current (VAC) capability. This will reduce risk to F-35A integration of SDB I and provide additional aircraft loadout options in the future to the inventory carriages. The quantity of BRU-61/As procured is 2,000 of which up to 407 BRU-61/As will be modified under this effort. The BRU-61/A carriage requirement document is the Combat Air Forces Operational Requirements Document 304-97-C-A for Miniature Munitions and Carriage System dated April 2005.

The SDB I Dual Power Modification effort was completed in FY2015.

Funding for this exhibit contained in PE 0207327F.

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

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:
SDB000 / Small Diameter Bomb

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

Line Item MDAP/MAIS Code: 439 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / GBU-39/B SDB I - BRU-61/A Dual Power Modifications (Capability Improvement)	P-40a***		- / 4.976	- / 4.000	- / 6.924	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 4.976	- / 4.000	- / 6.924	- / -	- / -	- / -

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / GBU-39/B SDB I - BRU-61/A Dual Power Modifications (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 15.900
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 15.900

*** 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 add due to rounding.

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

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

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:
999 / Replen Spares/Repair Parts

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

Line Item MDAP/MAIS Code: **Item MDAP/MAIS Code(s):** 185, 439

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	72.080	87.366	48.523	-	48.523	70.506	83.979	67.633	85.342	-	515.429
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	0.000	72.080	87.366	48.523	-	48.523	70.506	83.979	67.633	85.342	-	515.429
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	72.080	87.366	48.523	-	48.523	70.506	83.979	67.633	85.342	-	515.429

(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:

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 reparable 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.

The FY2016 funding request was reduced by \$10.368 million to account for the availability of prior execution balances.

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

- AMRAAM, 185
- SDB II, 439
- AIM-9X Blk II, 442
- JASSM, 555

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.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force		Date: February 2015
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: 999 / Replen Spares/Repair Parts
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
Line Item MDAP/MAIS Code:	Item MDAP/MAIS Code(s): 185, 439	
<p>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.</p> <p>This program has associated Research Development Test and Evaluation funding in PEs 11120F, 11213F, 27161F, 11122F, and 27163F.</p>		

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

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:
999 / Replen Spares/Repair Parts

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

Line Item MDAP/MAIS Code: **Item MDAP/MAIS Code(s):** 185, 439

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
Replen Spares/Repair Parts	P-18		- / 0.000	- / 72.080	- / 87.366	- / 48.523	- / -	- / 48.523
Total Gross/Weapon System Cost			- / 0.000	- / 72.080	- / 87.366	- / 48.523	- / -	- / 48.523

*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-18 Title for Spares.

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

Justification:
LGM-30 Minuteman III Mods continues to have large replenishment spares requirements for FY16. Tactical Aim Missile, and Advanced Medium Range Air-to-Air Missile have initial spares requirements in FY16.

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2016 Air Force					Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 04 / 10		P-1 Line Item Number / Title: 999 / Replen Spares/Repair Parts			Name: Replen Spares/Repair Parts	
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2014 (\$ M)	FY 2015 (\$ M)	FY 2016 Base (\$ M)	FY 2016 OCO (\$ M)	FY 2016 Total (\$ M)
Initial						
BA 04 - Spares and Repair Parts						
M09HA1 / Tactical AIM Missiles	-	1.650	1.717	0.604	-	0.604
MAMRA0 / ADV MED RANGE AIR-TO-AIR MISSILE (AMRAAM) [185]	-	0.084	2.062	1.996	-	1.996
999 / JOINT AIR-SURFACE STANDOFF MISSILE	-	-	-	0.806	-	0.806
M30MLG / Minuteman Squadrons	-	-	12.938	-	-	-
<i>Subtotal: Initial</i>	-	1.734	16.717	3.406	-	3.406
<i>Total Working Capital Fund Spares</i>	-	-	-	-	-	-
<i>Total Exempt Spares</i>	-	-	-	-	-	-
Replenishment						
BA 04 - Spares and Repair Parts						
M65DAG / AGM-65D Maverick	0.000	1.497	1.481	1.492	-	1.492
MALCBG / AGM-86 Air Launched Cruise Missile (ALCM)	0.000	4.561	4.767	0.496	-	0.496
M88AAG / AGM-88A Tactical AGM Missile (HARM)	0.000	3.488	3.440	3.484	-	3.484
MAMRA0 / AIM-120 Advanced Medium Range Air to Air Missile (AMRAAM) [185]	0.000	0.809	0.799	0.810	-	0.810
M091 / AIM-9 Sidewinder	0.000	5.435	5.275	5.242	-	5.242
M09HA1/MO9BAI / AIM-9 Tactical Air Intercept Missile	0.000	5.403	5.445	5.513	-	5.513
M30MLG / Arms Control Implementation	0.000	0.593	0.695	0.692	-	0.692
M30MLG / LGM-30 MINUTEMAN (MM III)	0.000	40.261	40.538	23.857	-	23.857
PRDTA2 / Predator Hellfire Missile	0.000	0.299	0.296	0.294	-	0.294
SDB000 / Small Diameter Bomb [439]	0.000	8.000	7.913	3.237	-	3.237
<i>Subtotal: Replenishment</i>	0.000	70.346	70.649	45.117	-	45.117
Total Cost (Initial + Replenishment)	0.000	72.080	87.366	48.523	-	48.523

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: ADV555 / Advanced EHF
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ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0605431F
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Line Item MDAP/MAIS Code: 261	Item MDAP/MAIS Code(s):
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	3,960.523	328.350	298.462	-	-	-	-	-	-	-	-	4,587.335
Less PY Advance Procurement <i>(\$ in Millions)</i>	602.202	-	-	-	-	-	-	-	-	-	-	602.202
Net Procurement (P1) <i>(\$ in Millions)</i>	3,358.321	328.350	298.462	-	-	-	-	-	-	-	-	3,985.133
Plus CY Advance Procurement <i>(\$ in Millions)</i>	602.202	-	-	-	-	-	-	-	-	-	-	602.202
Total Obligation Authority <i>(\$ in Millions)</i>	3,960.523	328.350	298.462	-	-	-	-	-	-	-	-	4,587.335

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

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

Description:

Funding for this exhibit is contained in PE 0303604F. This program has associated Research Development Test and Evaluation funding in PE 0603430F (FY13 and prior) and PE 0605431F (FY14 and beyond).

As of the FY16 PB submission, space programs' satellite procurement funding has been re-categorized from appropriation 3020, Missile Procurement Air Force (MPAF) to appropriation 3021, Space Procurement Air Force (SPAF), in FY16 and beyond. This exhibit will display values in "Prior Years, PY, CY, and Total (for 3020)" only; FY16 and beyond is displayed in the corresponding SPAF/3021 exhibits. Total 3020/3021 procurement funding is \$5,705.673M.

Develop and acquire Advanced Extremely High Frequency (AEHF) Military Satellite Communications (MILSATCOM) satellites, mission control segment and cryptography for survivable, anti-jam, worldwide, secure communications for the strategic and tactical war fighter. AEHF satellites will replenish the existing EHF system (Milstar) providing much higher capacity and data rate (5x increase over Milstar II) capabilities. AEHF is a cooperative program that includes International Partners (Canada, the United Kingdom, and the Kingdom of the Netherlands). The AEHF procurement program element funds the Command and Control System - Consolidated (CCS-C) mission unique software and databases for AEHF 4-6 satellites. CCS-C provides launch and early orbit support and on-orbit anomaly resolution.

AEHF Space Vehicle-3 (SV-3) and SV-4 are derivatives of the first two AEHF satellites which were delivered on the AEHF System Development and Demonstration (SDD) contract (RDT&E funded). SV-3 was successfully launched on 18 Sep 2013. SV-4 has a projected launch availability of 3QFY17.

SVs 5 and 6 are being procured under the Department of Defense's Efficient Space Procurement (ESP) approach which enables stable production and strategic sub-tier management through the block buy of space vehicles employing fixed-price contracting. The AEHF block buy of two satellites enables savings by reducing the effect of obsolescence and production breaks, allowing for economic buying of components, and optimizing production resources. Additionally, ESP enables cost efficiencies with the prime and subcontractor team as well as predictability for the space industrial base.

FY16 continues the incrementally funded procurement of the block buy of two satellites, AEHF SV 5-6.

The Resilient Basis for SATCOM (RBS) in Joint Operations study directed an Analysis of Alternatives (AoA) to investigate how best to provision for protected MILSATCOM capabilities beyond SV-6. The Protected Satellite Communications Services (PSCS) AoA has begun and is expected to inform the FY17 budget formulation. The validated 2012 Functional Availability Report (FAR) requires AEHF replenishment satellites beginning in 2024 and Advance Procurement for the AEHF Follow-on was funded in the FY14 President's Budget beginning FY2016. However, current functional availability forecast

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs **P-1 Line Item Number / Title:** ADV555 / Advanced EHF

ID Code (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:** 0605431F

Line Item MDAP/MAIS Code: 261 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
AEHF SV3 SV4	P-5, P-5a, P-21		2 / 2,797.778	- / 63.872	- / 67.867	- / -	- / -	- / -
AEHF SV5 SV6	P-5, P-5a, P-21		2 / 1,162.745	- / 264.478	- / 230.595	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 3,960.523	- / 328.350	- / 298.462	- / -	- / -	- / -

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
AEHF SV3 SV4	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	2 / 2,929.517
AEHF SV5 SV6	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	2 / 1,657.818
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 4,587.335

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

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

Justification:

Not applicable (see Appropriation 3021, SPAF, documentation).

On 31 Oct 2013, a Fixed-Price Incentive (Firm Target) contract for the AEHF SV 5/6 Production and Launch Operations was definitized, with a period of performance from fiscal years 2012 through 2021. The maximum total program funding liability is \$2.232 billion (includes \$227M in FY11 advanced procurement funds).

See P5A for unit cost based on actual contract award or forecast contract cost.

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** ADV555 / Advanced EHF **Item Number / Title [DODIC]:** - / AEHF SV3 SV4

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

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	2	-	-	-	-	-	-	-	-	-	-	2
Gross/Weapon System Cost (\$ in Millions)	2,797.778	63.872	67.867	-	-	-	-	-	-	-	-	2,929.517
Less PY Advance Procurement (\$ in Millions)	375.030	-	-	-	-	-	-	-	-	-	-	375.030
Net Procurement (P1) (\$ in Millions)	2,422.748	63.872	67.867	-	-	-	-	-	-	-	-	2,554.487
Plus CY Advance Procurement (\$ in Millions)	375.030	-	-	-	-	-	-	-	-	-	-	375.030
Total Obligation Authority (\$ in Millions)	2,797.778	63.872	67.867	-	-	-	-	-	-	-	-	2,929.517

(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)	1,398.889	-	-	-	-	-	-	-	-	-	-	1,464.759

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Space Vehicle - AEHF SV3 SV4 Cost																		
Recurring Cost																		
AEHF Space Vehicle (SV) 3	832.268	1	832.268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF SV 4 ^(†)	1,693.304	1	1,693.304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	2,525.572	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Space Vehicle - AEHF SV3 SV4 Cost</i>	-	-	2,525.572	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Checkout and Launch - AEHF SV3 SV4 Cost																		
AEHF SV 3 launch support services	-	-	58.581	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Integration of AEHF SV 3 with launch vehicle	-	-	2.128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF SV 3 propellant	-	-	1.498	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF Spectrum Management Support	-	-	0.071	-	-	0.173	-	-	0.176	-	-	-	-	-	-	-	-	-
AEHF SV 4 launch support services/launch readiness	-	-	0.808	-	-	3.735	-	-	41.844	-	-	-	-	-	-	-	-	-
AEHF SV 4 propellant	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF SV 3-4 Satellite Transportation for Launch	-	-	0.339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Command & Control System - Consolidated	-	-	0.000	-	-	0.020	-	-	1.830	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1						P-1 Line Item Number / Title: ADV555 / Advanced EHF						Item Number / Title [DODIC]: - / AEHF SV3 SV4					

ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
(CCS-C) Launch Support AEHF SV 4																		
<i>Subtotal: Checkout and Launch - AEHF SV3 SV4 Cost</i>	-	-	63.425	-	-	3.928	-	-	43.850	-	-	-	-	-	-	-	-	-
Support - AEHF SV3 SV4 Cost																		
AEHF SV 3-4 Technical Support (FFRDC) to include obsolescence/ DMS studies and analyses (PMA)	-	-	105.869	-	-	17.581	-	-	9.378	-	-	-	-	-	-	-	-	-
AEHF SV 3-4 Program Office Support (PMA)	-	-	75.531	-	-	25.779	-	-	6.298	-	-	-	-	-	-	-	-	-
AEHF SV 3-4 Enterprise Systems Engineering & Integration (SE&I)	-	-	15.106	-	-	16.584	-	-	8.341	-	-	-	-	-	-	-	-	-
GFP - ACF/IC2 Interim Contractor Support (All Labor)	-	-	12.275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - AEHF SV3 SV4 Cost</i>	-	-	208.781	-	-	59.944	-	-	24.017	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	1,398.889	2	2,797.778	-	-	63.872	-	-	67.867	-	-	-	-	-	-	-	-	-

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Space Vehicle - AEHF SV3 SV4 Cost																		
Recurring Cost																		
AEHF Space Vehicle (SV) 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	832.268	1	832.268
AEHF SV 4 ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,693.304	1	1,693.304
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,525.572
<i>Subtotal: Space Vehicle - AEHF SV3 SV4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,525.572
Checkout and Launch - AEHF SV3 SV4 Cost																		
AEHF SV 3 launch support services	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58.581
Integration of AEHF SV 3 with launch vehicle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.128

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** ADV555 / Advanced EHF **Item Number / Title [DODIC]:** - / AEHF SV3 SV4

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

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AEHF SV 3 propellant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.498
AEHF Spectrum Management Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.420
AEHF SV 4 launch support services/launch readiness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46.387
AEHF SV 4 propellant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF SV 3-4 Satellite Transportation for Launch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.339
Command & Control System - Consolidated (CCS-C) Launch Support AEHF SV 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.850
<i>Subtotal: Checkout and Launch - AEHF SV3 SV4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111.203
Support - AEHF SV3 SV4 Cost																		
AEHF SV 3-4 Technical Support (FFRDC) to include obsolescence/ DMS studies and analyses (PMA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132.828
AEHF SV 3-4 Program Office Support (PMA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107.608
AEHF SV 3-4 Enterprise Systems Engineering & Integration (SE&I)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.031
GFP - ACF/IC2 Interim Contractor Support (All Labor)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.275
<i>Subtotal: Support - AEHF SV3 SV4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	292.742
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,464.759	2 2,929.517

Remarks:
PMA: Program Management Administration
AEHF SV3 SV4 3020/3021 funds are \$ 3,043.336M.

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: ADV555 / Advanced EHF	Item Number / Title [DODIC]: - / AEHF SV3 SV4
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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
AEHF SV 4 ^(†)		2010	Lockheed Martin / Sunnyvale, Ca	SS / CPIF	SMC, LA AFB, CA	Dec 2010	Feb 2017	1	1,693.304	Y		Sep 2009

^(†) indicates the presence of a P-21

Remarks:

SV-4 unit cost is based on \$297M Advanced Procurement and \$1,396M contract target value for production and associated incentive fee.

AEHF SV4 Unit Costs is comprised of 3020/MPAF funds only.

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** ADV555 / Advanced EHF **Item Number / Title [DODIC]:** - / AEHF SV3 SV4

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2011												Fiscal Year 2012													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2010	BAL DUE AS OF 1 OCT	Calendar Year 2011												Calendar Year 2012												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
AEHF SV 4																															
	1	2010	AF	1	-	1			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** ADV555 / Advanced EHF **Item Number / Title [DODIC]:** - / AEHF SV3 SV4

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2013												Fiscal Year 2014														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
AEHF SV 4																																
	1	2010	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** ADV555 / Advanced EHF **Item Number / Title [DODIC]:** - / AEHF SV3 SV4

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
AEHF SV 4																																
	1	2010	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** ADV555 / Advanced EHF **Item Number / Title [DODIC]:** - / AEHF SV3 SV4

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
AEHF SV 4																															
	1	2010	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: ADV555 / Advanced EHF	Item Number / Title [DODIC]: - / AEHF SV3 SV4
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MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Lockheed Martin - Sunnyvale, Ca	-	-	-	-	-	-	-	-	-	-	-	-

"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-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** ADV555 / Advanced EHF **Item Number / Title [DODIC]:** - / AEHF SV5 SV6

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

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	2	-	-	-	-	-	-	-	-	-	-	2
Gross/Weapon System Cost (\$ in Millions)	1,162.745	264.478	230.595	-	-	-	-	-	-	-	-	1,657.818
Less PY Advance Procurement (\$ in Millions)	227.172	-	-	-	-	-	-	-	-	-	-	227.172
Net Procurement (P1) (\$ in Millions)	935.573	264.478	230.595	-	-	-	-	-	-	-	-	1,430.646
Plus CY Advance Procurement (\$ in Millions)	227.172	-	-	-	-	-	-	-	-	-	-	227.172
Total Obligation Authority (\$ in Millions)	1,162.745	264.478	230.595	-	-	-	-	-	-	-	-	1,657.818

(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)	581.373	-	-	-	-	-	-	-	-	-	-	828.909

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Space Vehicle - SV5 SV6 Cost																		
Recurring Cost																		
AEHF SV 5-6 Block Buy	-	-	2,317.185	-	-	237.614	-	-	171.569	-	-	-	-	-	-	-	-	-
FY14 Incremental Funding	-	-	-237.614	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY15 Incremental Funding	-	-	-171.569	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY16 Incremental Funding (3021)	-	-	-186.859	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY17 Incremental Funding (3021)	-	-	-558.398	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF 5-6 Block Buy satellites ^(†)	1,158.593	2	2,317.185	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF 5-6 Block Buy satellites Debit	-	-	-2,317.185	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	1,162.745	-	-	237.614	-	-	171.569	-	-	-	-	-	-	-	-	-
Subtotal: Space Vehicle - SV5 SV6 Cost	-	-	1,162.745	-	-	237.614	-	-	171.569	-	-	-	-	-	-	-	-	-
Checkout and Launch - SV5 SV6 Cost																		
AEHF SV 5-6 Propellant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF Spectrum Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1						P-1 Line Item Number / Title: ADV555 / Advanced EHF						Item Number / Title [DODIC]: - / AEHF SV5 SV6					

ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
AEHF SV 5-6 launch support services/launch readiness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Command & Control System-Consolidated (CCS-C) Launch Support AEHF 5-6	-	-	-	-	-	-	-	-	1.840	-	-	-	-	-	-	-	-	-
AEHF SV 5-6 Satellite Transportation for Launch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Checkout and Launch - SV5 SV6 Cost</i>	-	-	-	-	-	-	-	-	1.840	-	-	-	-	-	-	-	-	-
Support - SV5 SV6 Cost																		
AEHF SV 5-6 Technical Support (FFRDC) to include obsolescence/ DMS studies and analyses (PMA)	-	-	-	-	-	3.978	-	-	11.900	-	-	-	-	-	-	-	-	-
AEHF SV 5-6 Program Office Support (PMA)	-	-	-	-	-	3.664	-	-	17.926	-	-	-	-	-	-	-	-	-
AEHF SV 5-6 Enterprise Systems Engineering & Integration (SE&)	-	-	-	-	-	-	-	-	10.015	-	-	-	-	-	-	-	-	-
GFP - ACF/IC2 Interim Contractor Support (All Labor)	-	-	-	-	-	19.222	-	-	17.345	-	-	-	-	-	-	-	-	-
ACF/IC2 Test Asset Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - SV5 SV6 Cost</i>	-	-	-	-	-	26.864	-	-	57.186	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	581.373	2	1,162.745	-	-	264.478	-	-	230.595	-	-	-	-	-	-	-	-	-

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Space Vehicle - SV5 SV6 Cost																		
Recurring Cost																		
AEHF SV 5-6 Block Buy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,726.368
FY14 Incremental Funding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-237.614

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** ADV555 / Advanced EHF **Item Number / Title [DODIC]:** - / AEHF SV5 SV6

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

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
FY15 Incremental Funding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-171.569
FY16 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-186.859
FY17 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-558.398
AEHF 5-6 Block Buy satellites ⁽¹⁾	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,158.593	2	2,317.185
AEHF 5-6 Block Buy satellites Debit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-2,317.185
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,571.928
<i>Subtotal: Space Vehicle - SV5 SV6 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,571.928
<i>Checkout and Launch - SV5 SV6 Cost</i>																		
AEHF SV 5-6 Propellant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF Spectrum Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF SV 5-6 launch support services/launch readiness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Command & Control System-Consolidated (CCS-C) Launch Support AEHF 5-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.840
AEHF SV 5-6 Satellite Transportation for Launch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Checkout and Launch - SV5 SV6 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.840
<i>Support - SV5 SV6 Cost</i>																		
AEHF SV 5-6 Technical Support (FFRDC) to include obsolescence/ DMS studies and analyses (PMA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.878
AEHF SV 5-6 Program Office Support (PMA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.590
AEHF SV 5-6 Enterprise Systems Engineering & Integration (SE&I)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.015
GFP - ACF/IC2 Interim Contractor Support (All Labor)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.567

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: ADV555 / Advanced EHF	Item Number / Title [DODIC]: - / AEHF SV5 SV6
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
ACF/IC2 Test Asset Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - SV5 SV6 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84.050
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	828.909	2	1,657.818

Remarks:
PMA: Program Management Administration
AEHF SV 5-6 Block Buy funding includes Engineering Change Orders
Total AEHF SV5 SV6 3020/3021 funds are \$2,662.337M

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: ADV555 / Advanced EHF	Item Number / Title [DODIC]: - / AEHF SV5 SV6
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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
AEHF 5-6 Block Buy satellites ^(†)		2012	Lockheed Martin / Sunnyvale, CA	SS / FPIF	SMC, LA AFB, CA	Dec 2012	Jun 2018	2	1,116.086	Y		Jan 2012

^(†) indicates the presence of a P-21

Remarks:

SVs 5-6 have been procured as a block buy. The unit cost is based on a Fixed-Price Incentive (Firm Target) contract ceiling price of \$2,005B for the production and launch operations of two satellites, plus \$227M FY11 Advanced Procurement funds for AEHF 5-6 long lead parts.

Unit Cost comprised of both 3020 and 3021 procurement funds.

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: ADV555 / Advanced EHF	Item Number / Title [DODIC]: - / AEHF SV5 SV6
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2013												Fiscal Year 2014													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
AEHF 5-6 Block Buy satellites																															
	1	2012	AF	2	-	2			A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B
							C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	E	A	A	U	U	U	E	A
							T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	A

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: ADV555 / Advanced EHF	Item Number / Title [DODIC]: - / AEHF SV5 SV6
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
AEHF 5-6 Block Buy satellites																															
	1	2012	AF	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: ADV555 / Advanced EHF	Item Number / Title [DODIC]: - / AEHF SV5 SV6
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017													Fiscal Year 2018																	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L					
AEHF 5-6 Block Buy satellites																																				
	1	2012	AF	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L					

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** ADV555 / Advanced EHF **Item Number / Title [DODIC]:** - / AEHF SV5 SV6

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019												Fiscal Year 2020													
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	B A L
AEHF 5-6 Block Buy satellites																															
	1	2012	AF	2	1	1	-	-	-	-	-	1																	-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: ADV555 / Advanced EHF	Item Number / Title [DODIC]: - / AEHF SV5 SV6
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MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Lockheed Martin - Sunnyvale, CA	-	-	-	-	-	-	-	-	-	-	-	-

"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 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: GAP000 / Wideband Gapfiller Satellites(Space)
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ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0605433F
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Line Item MDAP/MAIS Code: 326	Item MDAP/MAIS Code(s):
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,955.177	33.998	36.071	-	-	-	-	-	-	-	-	3,025.246
Less PY Advance Procurement (<i>\$ in Millions</i>)	254.863	-	-	-	-	-	-	-	-	-	-	254.863
Net Procurement (P1) (<i>\$ in Millions</i>)	2,700.314	33.998	36.071	-	-	-	-	-	-	-	-	2,770.383
Plus CY Advance Procurement (<i>\$ in Millions</i>)	254.863	-	-	-	-	-	-	-	-	-	-	254.863
Total Obligation Authority (<i>\$ in Millions</i>)	2,955.177	33.998	36.071	-	-	-	-	-	-	-	-	3,025.246

(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:

As of the FY16 PB submission, space programs' satellite procurement funding has been re-categorized from appropriation 3020, Missile Procurement Air Force (MPAF) to appropriation 3021, Space Procurement Air Force (SPAF), in FY16 and beyond. This exhibit will display values in "Prior Years, PY, CY, and Total" for 3020 only; FY16 and beyond is displayed in the corresponding SPAF/3021 exhibits. Total 3020/3021 procurement funding is \$3,203.649M.

The Wideband Global SATCOM (WGS) System, previously known as the Wideband Gapfiller Satellite System, provides the DoD with high data rate military satellite communication (MILSATCOM) services in accordance with the Joint Space Management Board-approved MILSATCOM architecture (August 1996), the Joint Requirements Oversight Council (JROC)-approved MILSATCOM Capstone Requirements Document (October 1997), and JROC-approved WGS Operational Requirements Document (May 2000). This program was originally conceived to augment the near-term "bandwidth gap" in warfighter communications needs. Dual-frequency WGS satellites augment, then replace the DoD's Defense Satellite Communications System X-band service and augment one-way Global Broadcast Service Ka-band capabilities. In addition, WGS provides a high capacity two-way Ka-band service.

WGS Block I consists of satellites 1-3. These satellites were successfully launched on 10 October 2007, 3 April 2009, and 5 December 2009, respectively.

WGS Block II consists of satellites 4-6. Block II satellites are designed with slight modifications to better support the Airborne Intelligence, Surveillance and Reconnaissance mission. Satellite 4 was successfully launched on 19 January 2012. Satellite 5 was successfully launched on 24 May 2013.

A United States-Australia WGS partnership was codified in a Memorandum of Understanding (MOU) dated 14 November 2007. Australia provides funds needed to buy Space Vehicle-6 (SV-6) in exchange for access to constellation-wide (SVs 1-6) resources. Satellite 6 was successfully launched on 7 Aug 2013. SV-6 is not included in the Procurement Quantities in these documents.

WGS Block II Follow-On (B2FO) consists of satellites 7 and beyond. The WGS procurement program element funds the Command and Control System - Consolidated (CCS-C) mission unique software and databases for the WGS B2FO satellites. CCS-C provides launch and early orbit support and on-orbit anomaly resolution.

A multilateral partnership between the United States, Canada, Denmark, Luxembourg, the Netherlands, and New Zealand was codified in an MOU in January 2012. The United States contributions include existing and programmed infrastructure, to include the acquisition, launch, operations, and sustainment costs of WGS 1-8, and the launch, operations, and sustainment of SV-9. Other Partners' contributions fund

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Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs		P-1 Line Item Number / Title: GAP000 / Wideband Gapfiller Satellites(Space)
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0605433F
Line Item MDAP/MAIS Code: 326	Item MDAP/MAIS Code(s):	
<p>SV-9 acquisition and support activities. Each Partner provides funds needed to buy SV-9 in exchange for access to constellation-wide (SVs 1-9) resources commensurate with its level of contribution. SV-9 is not included in the Procurement Quantities in these documents.</p> <p>FY12 \$335M Congressional add procured WGS SV-10. Satellites 7 through 10 are projected to launch in FY15, FY17, FY17 and FY18, respectively.</p> <p>In an FY14 effort to study SATCOM capabilities to support Remotely Piloted Aircraft (RPA) requirements, the WGS program invested \$8M in a Commercial Satellite pathfinder. Additionally, the pathfinder is a means to demonstrate affordable investment alternatives to annual COMSAT leasing.</p> <p>The flyaway unit cost is not included on P-40 exhibit because there are multiple P-5 Cost Analysis exhibits.</p> <p>Total WGS SV1 SV5 3020 funds are \$1,619.426M. There are no WGS SV1 SV5 3021 funds. Total WGS B2FO 3020/3021 funds are \$1,584.223M.</p> <p>Funding for this exhibit is contained in PE 0303600F. This program has associated Research Development Test and Evaluation funding in PE 0605433F.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs

P-1 Line Item Number / Title:
GAP000 / Wideband Gapfiller Satellites(Space)

ID Code (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:** 0605433F

Line Item MDAP/MAIS Code: 326 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
WGS SV1 SV5	P-5		5 / 1,619.049	- / 0.377	- / -	- / -	- / -	- / -
WGS B2FO	P-5, P-5a, P-21		3 / 1,336.128	- / 33.621	- / 36.071	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 2,955.177	- / 33.998	- / 36.071	- / -	- / -	- / -

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
WGS SV1 SV5	P-5		- / -	- / -	- / -	- / -	- / -	5 / 1,619.426
WGS B2FO	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	3 / 1,405.820
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 3,025.246

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

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

Justification:

Not applicable (see Appropriation 3021/SPAF documentation).

Refer to P5A in lieu of Item Schedule for unit cost based on actual contract award or forecast contract cost.

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: GAP000 / Wideband Gapfiller Satellites(Space)	Item Number / Title [DODIC]: - / WGS SV1 SV5
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	5	-	-	-	-	-	-	-	-	-	-	5
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,619.049	0.377	-	-	-	-	-	-	-	-	-	1,619.426
Less PY Advance Procurement <i>(\$ in Millions)</i>	138.343	-	-	-	-	-	-	-	-	-	-	138.343
Net Procurement (P1) <i>(\$ in Millions)</i>	1,480.706	0.377	-	-	-	-	-	-	-	-	-	1,481.083
Plus CY Advance Procurement <i>(\$ in Millions)</i>	138.343	-	-	-	-	-	-	-	-	-	-	138.343
Total Obligation Authority <i>(\$ in Millions)</i>	1,619.049	0.377	-	-	-	-	-	-	-	-	-	1,619.426

(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>	323.810	-	-	-	-	-	-	-	-	-	-	323.885

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - WGS SV1 SV5 Cost																		
Non Recurring Cost																		
WGS SV 4-5 RF Bypass Mod	-	-	4.062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	4.062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway - WGS SV1 SV5 Cost</i>	-	-	4.062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Space Vehicle - WGS SV1 SV5 Cost																		
Recurring Cost																		
WGS SV 1-3	177.891	3	533.673	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS SV 4	376.463	1	376.463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS SV 5	338.319	1	338.319	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	1,248.455	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Space Vehicle - WGS SV1 SV5 Cost</i>	-	-	1,248.455	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Checkout and Launch - WGS SV1 SV5 Cost																		
WGS SV 1-5 Checkout & Launch/Launch Readiness	-	-	235.679	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS SV 4-5 Storage Reactivation and Transport	-	-	4.022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1						P-1 Line Item Number / Title: GAP000 / Wideband Gapfiller Satellites(Space)						Item Number / Title [DODIC]: - / WGS SV1 SV5					

ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Checkout and Launch - WGS SV1 SV5 Cost</i>	-	-	239.701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - WGS SV1 SV5 Cost																		
WGS SV 1-5 Joint Terminals Engineering Office	-	-	1.359	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS SV 1-5 Program Office Support	-	-	43.550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS SV 1-5 Technical Analysis Support	-	-	78.244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS SV 1-5 Program Management Administration	-	-	1.766	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS SV 1-5 A&AS	-	-	1.912	-	-	0.377	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - WGS SV1 SV5 Cost</i>	-	-	126.831	-	-	0.377	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	323.810	5	1,619.049	-	-	0.377	-	-	-	-	-	-	-	-	-	-	-	-

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - WGS SV1 SV5 Cost																		
Non Recurring Cost																		
WGS SV 4-5 RF Bypass Mod	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.062
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.062
<i>Subtotal: Flyaway - WGS SV1 SV5 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.062
Space Vehicle - WGS SV1 SV5 Cost																		
Recurring Cost																		
WGS SV 1-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177.891	3	533.673
WGS SV 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	376.463	1	376.463
WGS SV 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	338.319	1	338.319
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,248.455

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: GAP000 / Wideband Gapfiller Satellites(Space)	Item Number / Title [DODIC]: - / WGS SV1 SV5
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Space Vehicle - WGS SV1 SV5 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,248.455
<i>Checkout and Launch - WGS SV1 SV5 Cost</i>																		
WGS SV 1-5 Checkout & Launch/Launch Readiness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	235.679
WGS SV 4-5 Storage Reactivation and Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.022
<i>Subtotal: Checkout and Launch - WGS SV1 SV5 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	239.701
<i>Support - WGS SV1 SV5 Cost</i>																		
WGS SV 1-5 Joint Terminals Engineering Office	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.359
WGS SV 1-5 Program Office Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43.550
WGS SV 1-5 Technical Analysis Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78.244
WGS SV 1-5 Program Management Administration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.766
WGS SV 1-5 A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.289
<i>Subtotal: Support - WGS SV1 SV5 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	127.208
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	323.885	5	1,619.426

Remarks:

Total WGS SV1 SV5 procurement funds are \$1,619.426M. All WGS SV1 SV5 procurement dollars are MPAF/3020, there are no SPAF/3021 funds.

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: GAP000 / Wideband Gapfiller Satellites(Space)	Item Number / Title [DODIC]: - / WGS B2FO
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	3	-	-	-	-	-	-	-	-	-	-	3
Gross/Weapon System Cost (\$ in Millions)	1,336.128	33.621	36.071	-	-	-	-	-	-	-	-	1,405.820
Less PY Advance Procurement (\$ in Millions)	116.520	-	-	-	-	-	-	-	-	-	-	116.520
Net Procurement (P1) (\$ in Millions)	1,219.608	33.621	36.071	-	-	-	-	-	-	-	-	1,289.300
Plus CY Advance Procurement (\$ in Millions)	116.520	-	-	-	-	-	-	-	-	-	-	116.520
Total Obligation Authority (\$ in Millions)	1,336.128	33.621	36.071	-	-	-	-	-	-	-	-	1,405.820

(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)	445.376	-	-	-	-	-	-	-	-	-	-	468.607

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - WGS B2FO Cost																		
Non Recurring Cost																		
Factory Restart	-	-	67.760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS SV 7 RF Bypass Mod	-	-	0.777	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS SV 7 Redundant Ports	-	-	4.407	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS SV 10 Test Battery Refurbishment	-	-	3.500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS B2FO Enhanced Digital Channelizer Implementation	-	-	71.891	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	148.335	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway - WGS B2FO Cost</i>	-	-	148.335	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Space Vehicle - WGS B2FO Cost																		
Recurring Cost																		
WGS SV 7 ^(t)	443.532	1	443.532	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS SV 8 ^(t)	353.925	1	353.925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS SV 10 (Congressional add) ^(t)	338.700	1	338.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	1,136.157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1						P-1 Line Item Number / Title: GAP000 / Wideband Gapfiller Satellites(Space)						Item Number / Title [DODIC]: - / WGS B2FO					

ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:							
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Space Vehicle - WGS B2FO Cost</i>	-	-	1,136.157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Checkout and Launch - WGS B2FO Cost																		
WGS B2FO Checkout & Launch/Launch Readiness	-	-	12.862	-	-	15.305	-	-	13.631	-	-	-	-	-	-	-	-	-
WGS B2FO Storage, Reactivation and Transport	-	-	0.000	-	-	-	-	-	5.785	-	-	-	-	-	-	-	-	-
Command & Control System - Consolidated (CCS-C) WGS B2FO support	-	-	1.339	-	-	-	-	-	4.446	-	-	-	-	-	-	-	-	-
<i>Subtotal: Checkout and Launch - WGS B2FO Cost</i>	-	-	14.201	-	-	15.305	-	-	23.862	-	-	-	-	-	-	-	-	-
Support - WGS B2FO Cost																		
WGS B2FO Test Support	-	-	0.065	-	-	0.219	-	-	0.230	-	-	-	-	-	-	-	-	-
WGS B2FO Technical Analysis Support	-	-	8.861	-	-	1.390	-	-	0.971	-	-	-	-	-	-	-	-	-
Study SATCOM capabilities to support RPA requirements	-	-	0.000	-	-	8.000	-	-	-	-	-	-	-	-	-	-	-	-
WGS B2FO Program Management Administration	-	-	27.810	-	-	7.828	-	-	10.017	-	-	-	-	-	-	-	-	-
WGS B2FO A&AS	-	-	0.699	-	-	0.879	-	-	0.991	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - WGS B2FO Cost</i>	-	-	37.435	-	-	18.316	-	-	12.209	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	445.376	3	1,336.128	-	-	33.621	-	-	36.071	-	-	-	-	-	-	-	-	-

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - WGS B2FO Cost																		
Non Recurring Cost																		
Factory Restart	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67.760
WGS SV 7 RF Bypass Mod	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.777

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** GAP000 / Wideband Gapfiller Satellites(Space) **Item Number / Title [DODIC]:** - / WGS B2FO

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

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
WGS SV 7 Redundant Ports	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.407
WGS SV 10 Test Battery Refurbishment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.500
WGS B2FO Enhanced Digital Channelizer Implementation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	71.891
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	148.335
<i>Subtotal: Flyaway - WGS B2FO Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	148.335
Space Vehicle - WGS B2FO Cost																		
Recurring Cost																		
WGS SV 7 ^(t)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	443.532
WGS SV 8 ^(t)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	353.925
WGS SV 10 (Congressional add) ^(t)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	338.700
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,136.157
<i>Subtotal: Space Vehicle - WGS B2FO Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,136.157
Checkout and Launch - WGS B2FO Cost																		
WGS B2FO Checkout & Launch/Launch Readiness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41.798
WGS B2FO Storage, Reactivation and Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.785
Command & Control System - Consolidated (CCS-C) WGS B2FO support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.785
<i>Subtotal: Checkout and Launch - WGS B2FO Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53.368
Support - WGS B2FO Cost																		
WGS B2FO Test Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.514
WGS B2FO Technical Analysis Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.222
Study SATCOM capabilities to support RPA requirements	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.000

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: GAP000 / Wideband Gapfiller Satellites(Space)	Item Number / Title [DODIC]: - / WGS B2FO
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
WGS B2FO Program Management Administration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45.655
WGS B2FO A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.569
<i>Subtotal: Support - WGS B2FO Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	67.960
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	468.607	3	1,405.820

Remarks:
Total WGS B2FO 3020/3021 funds are \$1,584.223M.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: GAP000 / Wideband Gapfiller Satellites(Space)	Item Number / Title [DODIC]: - / WGS B2FO
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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
WGS SV 7 ^(†)		2011	Boeing Satellite Systems / El Segundo, CA	SS / FFP	SMC, LA AFB, CA	Aug 2011	Aug 2015	1	443.532	Y		Jan 2010
WGS SV 8 ^(†)		2012	Boeing Satellite Systems / El Segundo, CA	SS / FFP	SMC, LA AFB, CA	Dec 2011	Nov 2016	1	353.925	Y		Jan 2010
WGS SV 10 (Congressional add) ^(†)		2012	Boeing Satellite Systems / El Segundo, CA	SS / FFP	SMC, LA AFB, CA	Jul 2012	Dec 2017	1	338.700	Y		Mar 2012

^(†) indicates the presence of a P-21

Remarks:

SV-6 is funded by Australia. Advance Procurement (AP) was awarded in December 2007 and Full Procurement (FP) in December 2008.

SV-7 Unit Cost (\$443.532M): The above unit cost is TY\$ based on the Target Price for AP and the Firm Fixed Price (FFP) contract value for the production of satellite vehicle, to include Launch Support Services (LSS) and Launch Site Processing. SV-7 AP contract was awarded in August 2010. SV-7 FP was awarded in August 2011.

SV-8 Unit Cost (\$353.925M): The above unit cost is TY\$ based on the FFP contract value for the production of satellite vehicle, to include LSS and Launch Site Processing. SV-8 AP was awarded in August 2011. The option for SV-8 FP was awarded in December 2011.

The increase in Unit Cost from SV-5 (\$338.319M) to SV-7 (\$443.532M) is due to a two year production break resulting in industrial base and parts obsolescence issues.

SV-9 is funded by International Partners. FFP contract was awarded in January 2012.

SV-10 Unit Cost (\$338.700M): The above unit cost is TY\$ based on the FFP contract value for the production of satellite vehicle, to include LSS and Launch Site Processing. SV-10 was awarded in July 2012.

Date of First Delivery/DD250 signing for satellites 4-10 is accomplished upon ignition of their respective launch vehicles.

WGS B2FO Unit Costs are comprised of only 3020/MPAF procurement funds.

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** GAP000 / Wideband Gapfiller Satellites(Space) **Item Number / Title [DODIC]:** - / WGS B2FO

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2013												Fiscal Year 2014															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L		
WGS SV 7																																	
	1	2011	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
WGS SV 8																																	
	2	2012	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
WGS SV 10 (Congressional add)																																	
	3	2012	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: GAP000 / Wideband Gapfiller Satellites(Space)	Item Number / Title [DODIC]: - / WGS B2FO
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
WGS SV 7																																
	1	2011	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS SV 8																																
	2	2012	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
WGS SV 10 (Congressional add)																																
	3	2012	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: GAP000 / Wideband Gapfiller Satellites(Space)	Item Number / Title [DODIC]: - / WGS B2FO
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MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Boeing Satellite Systems - El Segundo, CA	-	-	-	-	-	-	-	-	-	-	-	-
2	Boeing Satellite Systems - El Segundo, CA	-	-	-	-	-	-	-	-	-	-	-	-
3	Boeing Satellite Systems - El Segundo, CA	-	-	-	-	-	-	-	-	-	-	-	-

"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 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: GPSIII / GPS III Space Segment
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ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
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Line Item MDAP/MAIS Code: 292	Item MDAP/MAIS Code(s):
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	4	2	1	-	-	-	-	-	-	-	-	7
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,039.427	480.578	280.565	-	-	-	-	-	-	-	-	1,800.570
Less PY Advance Procurement (<i>\$ in Millions</i>)	177.463	82.507	52.167	-	-	-	-	-	-	-	-	312.137
Net Procurement (P1) (<i>\$ in Millions</i>)	861.964	398.071	228.398	-	-	-	-	-	-	-	-	1,488.433
Plus CY Advance Procurement (<i>\$ in Millions</i>)	259.970	52.167	- (1)	-	-	-	-	-	-	-	-	312.137
Total Obligation Authority (<i>\$ in Millions</i>)	1,121.934	450.238	228.398	-	-	-	-	-	-	-	-	1,800.570

(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>)	259.857	240.289	280.565	-	-	-	-	-	-	-	-	257.224

Description:

As of the FY16 PB submission, space programs satellite procurement funding has been re-categorized from appropriation 3020, Missile Procurement Air Force (MPAF) to appropriation 3021, Space Procurement Air Force (SPAF), in FY16 and beyond. This exhibit will display values in Prior Years, PY, CY, and Total (for 3020 only); FY16 and beyond is displayed in the corresponding SPAF/3021 exhibits. Total 3020/3021 procurement funding is \$4,881M.

GPS is a satellite-based radio navigation system that serves military and civil users worldwide. GPS users process satellite signals to determine accurate position, velocity and time. GPS must comply with 10 United States Code (USC) sec 2281, which requires that the Secretary of Defense ensures the continued sustainment and operation of GPS for military and civilian purposes, and 51 USC sec 50112, which requires that GPS complies with certain standards and facilitates international cooperation.

The Global Positioning System (GPS) fills validated Joint Service requirements for worldwide, accurate, common grid three-dimensional positioning/navigation for military aircraft, ships and ground personnel. The consistent accuracy, unaffected by location or weather and available in real time, significantly improves effectiveness of reconnaissance, weapons delivery, mine countermeasures and rapid deployment for all services. The system is composed of three segments: user equipment (funded under PE 0305164F), space, and a control network (funded under PE 0603423F and 0305165F). RDT&E,AF funding for GPS III, including development and acquisition of Space Vehicles (SV) 01-02, is in this PE 0305265F, GPS III Space Segment. The satellites broadcast high-accuracy data using precisely synchronized signals which are received and processed by user equipment installed in military platforms. This equipment computes the platform position and velocity and provides steering vectors to target locations or navigation waypoints. The control segment provides daily updates to the navigation messages broadcast from the satellites to maintain system precision in three dimensions to 16 meters spherical error probable worldwide.

GPS III is the next generation SV to join the GPS constellation. GPS III SVs will deliver significant enhancements, including a new civil (L1C) Galileo-compatible signal and enhanced anti-jam power.

In an effort to implement Better Buying Power 3.0 to control production costs the Air Force intends to create a competitive environment. Options for the GPS III competition continue to be explored by USD(AT&L). The Air Force's notional plan is for a two-phased competition process. Phase one is a Production Readiness competition for up to three firm-fixed price contracts to mature competitor's production designs for a competition in Phase two. Phase two will be a full and open competition for up to 22 GPS III Production SVs with an expected award in FY17/18.

The Air Force received USD(AT&L) approval to purchase GPS III SV09-10 at the December 2014 Defense Acquisition Board in order to sustain the constellation while competitive options are pursued. The GPS III SV09-10 purchase will be on the current Lockheed Martin contract as technical equivalents of SV01-08.

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: GPSIII / GPS III Space Segment
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ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
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Line Item MDAP/MAIS Code: 292	Item MDAP/MAIS Code(s):
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Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
GPS III Space Segment	P-5, P-5a, P-21		4 / 1,039.427	2 / 480.578	1 / 280.565	- / -	- / -	- / -
Total Gross/Weapon System Cost			4 / 1,039.427	2 / 480.578	1 / 280.565	- / -	- / -	- / -

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
GPS III Space Segment	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	7 / 1,800.570
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	7 / 1,800.570

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

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

Justification:
See Appropriation 3021, SPAF, documentation for FY16 Justification.

Refer to P5A in lieu of Item Schedule for unit cost based on actual contract award or forecast contract cost.

Footnotes:
(1) Actual MPAF FY15 Advanced Procurement is \$87.0M. Due to transition to SPAF in FY16, Advanced Procurement will be reported with SPAF MGPS00 GPS III for FY15 to preserve Weapon System Costs.

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Exhibit P-5, Cost Analysis: PB 2016 Air Force										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1					P-1 Line Item Number / Title: GPSIII / GPS III Space Segment					Item Number / Title [DODIC]: - / GPS III Space Segment		

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	4	2	1	-	-	-	-	-	-	-	-	7
Gross/Weapon System Cost (\$ in Millions)	1,039.427	480.578	280.565	-	-	-	-	-	-	-	-	1,800.570
Less PY Advance Procurement (\$ in Millions)	177.463	82.507	52.167	-	-	-	-	-	-	-	-	312.137
Net Procurement (P1) (\$ in Millions)	861.964	398.071	228.398	-	-	-	-	-	-	-	-	1,488.433
Plus CY Advance Procurement (\$ in Millions)	259.970	52.167	-	-	-	-	-	-	-	-	-	312.137
Total Obligation Authority (\$ in Millions)	1,121.934	450.238	228.398	-	-	-	-	-	-	-	-	1,800.570

(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)	259.857	240.289	280.565	-	-	-	-	-	-	-	-	257.224

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Space Vehicle - SpaceVehicle End Item Cost																		
Recurring Cost																		
GPS III SV 03-10 ^(†)	241.890	4	967.558	224.183	2	448.366	248.565	1	248.565	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	967.558	-	-	448.366	-	-	248.565	-	-	-	-	-	-	-	-	-
<i>Subtotal: Space Vehicle - SpaceVehicle End Item Cost</i>	-	-	967.558	-	-	448.366	-	-	248.565	-	-	-	-	-	-	-	-	-
Support - Support End Item Cost																		
A&AS - GPS III SV 03-10 FFRDC	-	-	40.545	-	-	15.081	-	-	10.679	-	-	-	-	-	-	-	-	-
A&AS - GPS III SV 03-10 PMA	-	-	31.324	-	-	17.131	-	-	21.321	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	71.869	-	-	32.212	-	-	32.000	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	259.857	4	1,039.427	240.289	2	480.578	280.565	1	280.565	-	-	-	-	-	-	-	-	-

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Space Vehicle - SpaceVehicle End Item Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** GPSIII / GPS III Space Segment **Item Number / Title [DODIC]:**
- / GPS III Space Segment

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

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
GPS III SV 03-10 ^(t)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	237.784	7	1,664.489
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,664.489
<i>Subtotal: Space Vehicle - SpaceVehicle End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,664.489
Support - Support End Item Cost																		
A&AS - GPS III SV 03-10 FFRDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66.305
A&AS - GPS III SV 03-10 PMA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69.776
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	136.081
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	257.224	7	1,800.570

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: GPSIII / GPS III Space Segment	Item Number / Title [DODIC]: - / GPS III Space Segment
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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
GPS III SV 03-10 ^(†)		2014	Lockheed Martin / Denver, CO	C / CPAF	LAAFB, CA	Apr 2014	Oct 2019	2	224.183	Y		Jul 2007
GPS III SV 03-10 ^(†)		2015	Lockheed Martin / Denver, CO	C / CPAF	LAAFB, CA	Mar 2016	Mar 2021	1	248.565	Y		Mar 2015

^(†) indicates the presence of a P-21

Remarks:
Unit Cost comprised of both 3020 and 3021 procurement funds

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** GPSIII / GPS III Space Segment **Item Number / Title [DODIC]:**
- / GPS III Space Segment

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
GPS III SV 03-10																															
Prior Years Deliveries: 4																															
1	2014	AF		2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
1	2015	AF		1	-	1																								1	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** GPSIII / GPS III Space Segment **Item Number / Title [DODIC]:** - / GPS III Space Segment

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
GPS III SV 03-10																															
Prior Years Deliveries: 4																															
1	2014	AF		2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
1	2015	AF		1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: GPSIII / GPS III Space Segment	Item Number / Title [DODIC]: - / GPS III Space Segment
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MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Lockheed Martin - Denver, CO	-	-	-	-	-	-	-	-	-	18	60	78

"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, Advance Procurement Budget Line Item Justification: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: GPSIII / GPS III Space Segment
---	--

Program Elements for Code B Items:	Other Related Program Elements:
---	--

Line Item MDAP/MAIS Code: 292	Item MDAP/MAIS Code(s):
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Gross/Weapon System Cost (<i>\$ in Millions</i>)	259.970	52.167	- (1)	-	-	-	-	-	-	-	-	312.137
Net Procurement (P1) (<i>\$ in Millions</i>)	259.970	52.167	- (1)	-	-	-	-	-	-	-	-	312.137
Total Obligation Authority (<i>\$ in Millions</i>)	259.970	52.167	- (1)	-	-	-	-	-	-	-	-	312.137

Description:

As of the FY16 PB submission, space programs satellite procurement funding has been re-categorized from appropriation 3020, Missile Procurement Air Force (MPAF) to appropriation 3021, Space Procurement Air Force (SPAF), in FY16 and beyond. This exhibit will display values in "Prior Years, PY, CY, and Total (for 3020) only; FY16 and beyond is displayed in the corresponding SPAF/3021 exhibits. Total 3020/3021 advanced procurement funding is \$816.487M

GPS is a satellite-based radio navigation system that serves military and civil users worldwide. GPS users process satellite signals to determine accurate position, velocity and time. GPS must comply with 10 United States Code (USC) sec 2281, which requires that the Secretary of Defense ensures the continued sustainment and operation of GPS for military and civilian purposes, and 51 USC sec 50112, which requires that GPS complies with certain standards and facilitates international cooperation.

The Global Positioning System (GPS) fills validated Joint Service requirements for worldwide, accurate, common grid three-dimensional positioning/navigation for military aircraft, ships and ground personnel. The consistent accuracy, unaffected by location or weather and available in real time, significantly improves effectiveness of reconnaissance, weapons delivery, mine countermeasures and rapid deployment for all services. The system is composed of three segments: user equipment (funded under PE 0305164F), space, and a control network (funded under PE 0603423F and 0305165F). RDT&E,AF funding for GPS III, including development and acquisition of Space Vehicles (SV) 01-02, is in this PE 0305265F, GPS III Space Segment. The satellites broadcast high-accuracy data using precisely synchronized signals which are received and processed by user equipment installed in military platforms. This equipment computes the platform position and velocity and provides steering vectors to target locations or navigation waypoints. The control segment provides daily updates to the navigation messages broadcast from the satellites to maintain system precision in three dimensions to 16 meters spherical error probable worldwide.

GPS III is the next generation SV to join the GPS constellation. GPS III SVs will deliver significant enhancements, including a new civil (L1C) Galileo-compatible signal and enhanced anti-jam power.

In an effort to implement Better Buying Power 3.0 to control production costs the Air Force intends to create a competitive environment. Options for the GPS III competition continue to be explored by USD(AT&L). The Air Force's notional plan is for a two-phased competition process. Phase one is a Production Readiness competition for up to three firm-fixed price contracts to mature competitors' production designs for a competition in Phase two. Phase two will be a full and open competition for up to 22 GPS III Production SVs with an expected award in FY17/18.

The GPS directorate received USD(AT&L) approval to purchase GPS III SV09-10 at the December 2014 Defense Acquisition Board in order to sustain the constellation while competitive options are pursued. Upon authorization from the Milestone Decision Authority, the GPS III SV09-10 purchase will be on the current Lockheed Martin contract as technical equivalents of SV01-08.

Total GPS III Space Segment 3020/3021 funds are \$4881M.

Funding for this exhibit is contained in PE 0305265F.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: GPSIII / GPS III Space Segment
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Program Elements for Code B Items:	Other Related Program Elements:
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Line Item MDAP/MAIS Code: 292	Item MDAP/MAIS Code(s):
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Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
/ GPS III Space Segment	P-10		- / 259.970	- / 52.167	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 259.970	- / 52.167	- / - ⁽¹⁾	- / -	- / -	- / -

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
/ GPS III Space Segment	P-10		- / -	- / -	- / -	- / -	- / -	- / 312.137
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 312.137

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

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

Justification:

Funding procures long lead items (e.g., atomic clocks, critical Bus hardware items, and other long lead components).

Footnotes:

⁽¹⁾ Actual MPAF FY15 Advanced Procurement is \$87.0M. Due to transition to SPAF in FY16, Advanced Procurement will be reported with SPAF MGPS00 GPS III for FY15 to preserve Weapon System Costs.

UNCLASSIFIED

Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: GPSIII / GPS III Space Segment	P-5 Number / Title: - / GPS III Space Segment
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First System (2016) Award Date: January 2015	First System (2016) Completion Date: January 2015	Interval Between Systems: 0 Months
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	Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2014 <i>(Each)</i>	FY 2015 <i>(Each)</i>	FY 2016 <i>(Each)</i>	FY 2017 <i>(Each)</i>	FY 2018 <i>(Each)</i>	FY 2019 <i>(Each)</i>	FY 2020 <i>(Each)</i>	To Complete <i>(Each)</i>	Total <i>(Each)</i>
GPS III Space Segment											
Quantity		4	2	1	-	-	-	-	-	-	7

	When Rqd <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2014 <i>(\$ M)</i>	FY 2015 <i>(\$ M)</i>	FY 2016 <i>(\$ M)</i>	FY 2017 <i>(\$ M)</i>	FY 2018 <i>(\$ M)</i>	FY 2019 <i>(\$ M)</i>	FY 2020 <i>(\$ M)</i>	To Complete <i>(\$ M)</i>	Total <i>(\$ M)</i>
CFE											
GPS III SV 03-10	0	259.970	52.167	-	-	-	-	-	-	-	312.137
<i>Total: CFE</i>		259.970	52.167	-	-	-	-	-	-	-	312.137
Total Advance Procurement/Obligation Authority		259.970	52.167	-	-	-	-	-	-	-	312.137

UNCLASSIFIED

Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: GPSIII / GPS III Space Segment	P-5 Number / Title: - / GPS III Space Segment
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Cost Elements	QPA <i>(Each)</i>	FY 2016					Total Cost Request <i>(\$ M)</i>
		Production Leadtime <i>(Months)</i>	Unit Cost <i>(\$ M)</i>	Contract Forecast Date	2016 Qty <i>(Each)</i>	For FY	
CFE							
GPS III SV 03-10	-						-
<i>Total: CFE</i>							-
Total Advance Procurement/Obligation Authority							-

Description:
Funding procures long lead items (e.g. atomic clocks, critical Bus hardware items, and other long lead components).

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: MCOMSE / Spaceborne Equipment (COMSEC)
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ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:						Other Related Program Elements:					
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	5.244	13.401	-	-	-	-	-	-	-	-	18.645
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	5.244	13.401	-	-	-	-	-	-	-	-	18.645
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	5.244	13.401	-	-	-	-	-	-	-	-	18.645
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

In FY2016, Appn 3020, BA:05 Line Item #MCOMSE, Spaceborne Equip transferred to Appn 3021.

Space Communications Security (COMSEC) procures cryptographic products to operate in the space environment. Space COMSEC equipment is a foundational element in achieving AF space and information superiority. Space COMSEC is an enabler for space system compliance with DoDI 8581.01 - Information Assurance (IA) Policy for Space Systems Used by the Department of Defense. Space COMSEC mission provides communications security products and lifecycle sustainment support to all DoD satellite systems and commercial systems supporting DOD missions. It enables secure Command and Control (C2) of satellites and prevents unauthorized access and destruction. It enables secure transmission of satellite systems' health and status telemetry data (satellite health and relative orbital position) to ground control stations, thus protecting critical information about the capabilities of DoD satellite systems. The capability of a system must be protected from an adversary to avoid exploitation of a system weakness/limitation, knowledge of which could assist an adversary in a successful mission against DoD military forces and potential loss of life. Space COMSEC also provides secure transmission of information collected by satellite sensors, which provides the warfighter an integrated view of the battle space. Space COMSEC provides for secure SATCOM, positioning, navigation, timing, weather, nuclear detection and early warning missions. Space COMSEC also enables Transmission Security (TRANSEC) for space platforms. Space COMSEC mission procures crypto end items and logistics elements to support developing and operational space systems.

Funding for this effort is in program element (PE) 0303140F.

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: MCOMSE / Spaceborne Equipment (COMSEC)
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ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
Spaceborne Equipment (COMSEC)	P-5, P-5a		- / -	- / 5.244	- / 13.401	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / -	- / 5.244	- / 13.401	- / -	- / -	- / -

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.
 Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
 In FY2016, Appn 3020, BA:05 Line Item #MCOMSE, Spaceborne Equip transferred to Appn 3021.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MCOMSE / Spaceborne Equipment (COMSEC)	Item Number / Title [DODIC]: - / Spaceborne Equipment (COMSEC)

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	5.244	13.401	-	-	-	
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	
Net Procurement (P1) (<i>\$ in Millions</i>)	-	5.244	13.401	-	-	-	
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	
Total Obligation Authority (<i>\$ in Millions</i>)	-	5.244	13.401	-	-	-	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Support - End Items Cost																		
Products ^(†)	-	-	-	0.041	113	4.645	0.273	32	8.750	-	-	-	-	-	-	-	-	-
Logistics ^(†)	-	-	-	0.150	4	0.599	0.930	5	4.651	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - End Items Cost</i>	-	-	-	-	-	5.244	-	-	13.401	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	5.244	-	-	13.401	-	-	-	-	-	-	-	-	-

^(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MCOMSE / Spaceborne Equipment (COMSEC)	Item Number / Title [DODIC]: - / Spaceborne Equipment (COMSEC)
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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
Products		2014	MULTIPLE / MULTIPLE	C / FFP	AFMC/ESC	May 2015	Feb 2016	113	0.041	Y		
Products		2015	MULTIPLE / MULTIPLE	C / FFP	AFMC/ESC	Jun 2016	Apr 2017	32	0.273	Y		
Logistics		2014	MULTIPLE / MULTIPLE	C / FFP	AFMC/ESC	Feb 2015	Dec 2015	4	0.150	Y		
Logistics		2015	MULTIPLE / MULTIPLE	C / FFP	AFMC/ESC	Feb 2016	Mar 2016	5	0.930	Y		

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: MGPS00 / Global Positioning (Space)
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ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements:
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Line Item MDAP/MAIS Code: 166	Item MDAP/MAIS Code(s):
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	61	-	-	-	-	-	-	-	-	-	-	61
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,788.839	55.895	49.887	-	-	-	-	-	-	-	-	3,894.621
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	3,788.839	55.895	49.887	-	-	-	-	-	-	-	-	3,894.621
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,788.839	55.895	49.887	-	-	-	-	-	-	-	-	3,894.621

(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>)	62.112	-	-	-	-	-	-	-	-	-	-	63.846

Description:

As of the FY16 PB submission, space programs satellite procurement funding has been re-categorized from appropriation 3020, Missile Procurement Air Force (MPAF) to appropriation 3021, Space Procurement Air Force (SPAF), in FY16 and beyond. This exhibit will display values in "Prior Years, PY, CY, and Total (for 3020)" only; FY16 and beyond is displayed in the corresponding SPAF/3021 exhibits." Total 3020/3021 procurement funding is \$4543.59M

The Navstar Global Positioning System (GPS) fills validated Joint Service requirements for worldwide, accurate, common grid three-dimensional positioning/navigation for military aircraft, ships, and ground personnel. The consistent accuracy, unaffected by location or weather and available in real time, significantly improves effectiveness of reconnaissance, weapons delivery, mine countermeasures and rapid deployment for all services. The system is composed of three segments: user equipment (funded under PE 0305164F), satellites and a control network. The satellites broadcast high-accuracy data using precisely synchronized signals which are received and processed by user equipment installed in military platforms. This equipment computes the platform position and velocity and provides steering vectors to target locations or navigation waypoints. The control segment provides daily updates to the navigation messages broadcasted from the satellites to maintain system precision.

The GPS IIF program will continue Launch and On-Orbit Support (LOOS) on the LOOS fixed price services contract with a period of performance from 1 Jan 2013 to 31 Dec 2017. The contract includes: launch readiness activities, launch and on-orbit checkout of up to nine GPS IIF Space Vehicles (SVs). This includes the services to store, maintain, and transport up to nine GPS IIF SVs and on-orbit operations for up to twelve GPS IIF SVs.

GPS IIF is the follow-on program to IIR-M (last launch Aug 09) and was awarded in 1995 to Rockwell International (now Boeing, Seal Beach, California). The contract was modified in 2002 for the modernization of all IIF SVs. Of the 12 satellite vehicles contracted for, 8 have been launched and are successfully on orbit (the eighth IIF was successfully launched in October 2014). The remaining 4 vehicles have been accepted; 1 is at the Cape awaiting launch in March 2015, and the remaining 3 SVs are in storage completing hardware repair and are on track to meet their respective launch date. The Block IIF program continues launch readiness activities, to include storage and transport services, launch and on-orbit checkout, and on-orbit operations.

Block IIF is launched on the Evolved Expendable Launch Vehicle (EELV). Launch schedules are established based on constellation sustainment needs and launch manifest constraints. The system hosts the Nuclear Detonation (NUDET) Detection System (NDS) funded under PE 0305913F.

The acquisition strategy for the Block IIF satellites was a competitive multiyear contract for 6 satellites awarded in FY1996. Options for 6 additional Space Vehicles (SVs) were exercised in FY2004 and FY2005 (3 each year). Block IIF satellites have been modernized to include a new military signal and a second and third civil signal.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs

P-1 Line Item Number / Title:
MGPS00 / Global Positioning (Space)

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

Line Item MDAP/MAIS Code: 166 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
Global Positioning (Space)	P-5, P-5a		61 / 3,788.839	- / 55.895	- / 49.887	- / -	- / -	- / -
Total Gross/Weapon System Cost			61 / 3,788.839	- / 55.895	- / 49.887	- / -	- / -	- / -

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
Global Positioning (Space)	P-5, P-5a		- / -	- / -	- / -	- / -	- / -	61 / 3,894.621
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	61 / 3,894.621

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

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

Justification:
Not applicable (see Appropriation 3021, SPAF, documentation).

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MGPS00 / Global Positioning (Space)	Item Number / Title [DODIC]: - / Global Positioning (Space)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	61	-	-	-	-	-	-	-	-	-	-	61
Gross/Weapon System Cost (\$ in Millions)	3,788.839	55.895	49.887	-	-	-	-	-	-	-	-	3,894.621
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	3,788.839	55.895	49.887	-	-	-	-	-	-	-	-	3,894.621
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,788.839	55.895	49.887	-	-	-	-	-	-	-	-	3,894.621

(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)	62.112	-	-	-	-	-	-	-	-	-	-	63.846

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
Production Support	-	-	26.759	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	26.759	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	26.759	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Space Vehicle - SpaceVehicle End Item Cost																		
Recurring Cost																		
GPS Block IIA Space Vehicle	31.063	28	869.768	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GPS Block IIR Space Vehicle	51.826	21	1,088.345	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GPS Block IIF Space Vehicle ^(t)	82.061	12	984.726	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	2,942.839	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Space Vehicle - SpaceVehicle End Item Cost</i>	-	-	2,942.839	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Checkout and Launch - CheckoutAndLaunch End Item Cost																		
Integration & Checkout	-	-	3.802	-	-	2.138	-	-	0.835	-	-	-	-	-	-	-	-	-
Launch Services Planning	-	-	216.073	-	-	27.113	-	-	8.287	-	-	-	-	-	-	-	-	-
Propellants	-	-	5.759	-	-	-	-	-	0.164	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** MGPS00 / Global Positioning (Space) **Item Number / Title [DODIC]:**
- / Global Positioning (Space)

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

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Storage Reactivation & Transport	-	-	14.852	-	-	7.240	-	-	6.882	-	-	-	-	-	-	-	-	-
<i>Subtotal: Checkout and Launch - CheckoutAndLaunch End Item Cost</i>	-	-	240.486	-	-	36.491	-	-	16.168	-	-	-	-	-	-	-	-	-
Support - Support End Item Cost																		
ICS Labor - Technical Support	-	-	363.146	-	-	1.366	-	-	1.414	-	-	-	-	-	-	-	-	-
A&AS - Program Support	-	-	77.803	-	-	9.584	-	-	10.565	-	-	-	-	-	-	-	-	-
ICS Labor - On-Orbit Planning Support	-	-	137.806	-	-	8.454	-	-	21.740	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	578.755	-	-	19.404	-	-	33.719	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	62.112	61	3,788.839	-	-	55.895	-	-	49.887	-	-	-	-	-	-	-	-	-

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
Production Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.759
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.759
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.759
Space Vehicle - SpaceVehicle End Item Cost																		
Recurring Cost																		
GPS Block IIA Space Vehicle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31.063	28	869.768
GPS Block IIR Space Vehicle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51.826	21	1,088.345
GPS Block IIF Space Vehicle ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82.061	12	984.726
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,942.839
<i>Subtotal: Space Vehicle - SpaceVehicle End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,942.839
Checkout and Launch - CheckoutAndLaunch End Item Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MGPS00 / Global Positioning (Space)	Item Number / Title [DODIC]: - / Global Positioning (Space)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Integration & Checkout	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.775
Launch Services Planning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	251.473
Propellants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.923
Storage Reactivation & Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.974
<i>Subtotal: Checkout and Launch - CheckoutAndLaunch End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	293.145
Support - Support End Item Cost																		
ICS Labor - Technical Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	365.926
A&AS - Program Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97.952
ICS Labor - On-Orbit Planning Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	168.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	631.878
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.846	61	3,894.621

Remarks:
 The Prior Year IIA and IIR satellite cost lines include all other MPAF costs associated with the respective satellites (e.g., propellants, program support, etc). IIF PY costs are broken out separately on this P-5.

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MGPS00 / Global Positioning (Space)	Item Number / Title [DODIC]: - / Global Positioning (Space)
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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
GPS Block IIF Space Vehicle		2006	Boeing / El Segundo, CA	SS / FPIF	LAAFB, CA	Oct 2005	Nov 2013	3	114.200	Y		Feb 1995

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: MS0554 / Def Meteorological Sat Prog(Space)
---	---

ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:						Other Related Program Elements:					
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,384.687	80.542	77.855	-	-	-	-	-	-	-	-	2,543.084
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	2,384.687	80.542	77.855	-	-	-	-	-	-	-	-	2,543.084
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,384.687	80.542	77.855	-	-	-	-	-	-	-	-	2,543.084

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

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

Description:

As of the FY16 PB submission, space procurement funding has been re-categorized from appropriation 3020, Missile Procurement Air Force (MPAF) to appropriation 3021, Space Procurement Air Force (SPAF), in FY16 and beyond. This exhibit will display values in "Prior Years, PY, CY, and Total (for 3020) only; FY16 and beyond is displayed in the corresponding SPAF/3021 exhibits. Total 3020/3021 procurement funding is \$292.358M.

The Defense Meteorological Satellite Program (DMSP) is a fully operational program supporting a broad range of national security users who require timely and accurate global weather information. DMSP is DoDs only assured source of global weather data providing visible and infrared cloud cover imagery (1/3 nautical miles (nm) constant resolution) and other meteorological, oceanographic, land surface, and space environmental data. DMSP satellites are flown in sun-synchronous, 450nm polar-orbits to meet mission requirements (sun-synchronous means the satellites cross the equator at the same local sun time on each of their 14 orbits/day).

DMSP Flight-19 (F-19) and F-18 are the primary operational satellites flying in the early and mid-morning orbits respectively. In 2013 the Air Force completed a comprehensive Service Life Extension Program (SLEP) to mitigate all known life-limiting issues with the last two DMSP satellites, F-19 and F-20. DMSP F-19 launched successfully in April 2014 to replace F-17 in the early-morning orbit.

DMSP F-20 continues through final post-SLEP Integration and Test and will complete all environmental testing in Mar 2015 and begin installs and final preparations for launch processing. DMSP F-20 will be launch-ready as soon as April 2016.

Funding for this effort is in PE 0305160F.

Total MS0554 / Def Meteorological Sat Prog(Space) 3020/3021 funds are \$292.358M.

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: MS0554 / Def Meteorological Sat Prog(Space)
---	---

ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:			Other Related Program Elements:		
Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
Def Meteorological Sat Prog(Space)	P-5		- / 2,384.687	- / 80.542	- / 77.855	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 2,384.687	- / 80.542	- / 77.855	- / -	- / -	- / -

*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 add due to rounding.

Justification:
 Not applicable (see Appropriation 3021, SPAF, documentation).

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MS0554 / Def Meteorological Sat Prog(Space)	Item Number / Title [DODIC]: - / Def Meteorological Sat Prog(Space)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,384.687	80.542	77.855	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	2,384.687	80.542	77.855	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,384.687	80.542	77.855	-	-	-

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

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

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Space Vehicle - SpaceVehicle End Item Cost																		
Recurring Cost																		
Spacecraft Integration and Test--CLIN 1	117.908	9	1,061.174	-	-	30.836	-	-	31.500	-	-	-	-	-	-	-	-	-
LM Spacecraft Integ & Test--Total Awd Fee	-	-	122.713	-	-	3.918	-	-	4.700	-	-	-	-	-	-	-	-	-
Independent Verif & Validation Tech Spt	-	-	31.204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Consolidated Sensor Support and Services--CLIN 1	-	-	426.760	-	-	14.857	-	-	15.500	-	-	-	-	-	-	-	-	-
NGC Hardware Sensor Spt--CLIN 2	-	-	121.975	-	-	0.046	-	-	-	-	-	-	-	-	-	-	-	-
NGC Total Award Fee	-	-	43.171	-	-	1.890	-	-	2.500	-	-	-	-	-	-	-	-	-
Sensor Lab Support	-	-	88.492	-	-	2.974	-	-	3.000	-	-	-	-	-	-	-	-	-
LM Spacecraft Battery Option / SAFT CLIN 2	-	-	7.665	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LM Spacecraft Orbital Incentives	-	-	8.320	-	-	3.352	-	-	-	-	-	-	-	-	-	-	-	-
NGC Orbital Incentives	-	-	3.631	-	-	1.463	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,915.105</i>	-	-	<i>59.336</i>	-	-	<i>57.200</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Space Vehicle - SpaceVehicle End Item Cost</i>	-	-	<i>1,915.105</i>	-	-	<i>59.336</i>	-	-	<i>57.200</i>	-	-	-	-	-	-	-	-	-
Checkout and Launch - CheckoutAndLaunch End Item Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1						P-1 Line Item Number / Title: MS0554 / Def Meteorological Sat Prog(Space)						Item Number / Title [DODIC]: - / Def Meteorological Sat Prog(Space)					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
VAFB Launch Base Support	-	-	16.553	-	-	1.753	-	-	0.500	-	-	-	-	-	-	-	-	-
EELV Mission Unique Hardware	-	-	29.066	-	-	1.500	-	-	2.000	-	-	-	-	-	-	-	-	-
NGC Launch & Early Orbit Spt--CLIN 3	-	-	7.565	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Checkout and Launch - CheckoutAndLaunch End Item Cost</i>	-	-	53.184	-	-	3.253	-	-	2.500	-	-	-	-	-	-	-	-	-
Support - Support End Item Cost																		
FFRDC (Tech)	-	-	299.709	-	-	12.651	-	-	12.800	-	-	-	-	-	-	-	-	-
Program Management Administration	-	-	116.689	-	-	5.302	-	-	5.355	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	416.398	-	-	17.953	-	-	18.155	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	2,384.687	-	-	80.542	-	-	77.855	-	-	-	-	-	-	-	-	-

Remarks:
Total MS0554 / Def Meteorological Sat Prog(Space) 3020/3021 funds are \$292.358M.

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: MSEELC / EVOLVED EXPENDABLE LAUNCH CAPABILITY
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ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0604853F
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Line Item MDAP/MAIS Code: 176	Item MDAP/MAIS Code(s):
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	631.551	559.413	687.735	-	-	-	-	-	-	-	-	1,878.699
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	631.551	559.413	687.735	-	-	-	-	-	-	-	-	1,878.699
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	631.551	559.413	687.735	-	-	-	-	-	-	-	-	1,878.699

(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 requests funding for the Evolved Expendable Launch Vehicle (EELV) program in 2 separate P-1 line items. Launch services will be executed from the Evolved Expendable Launch Veh (Space) P-1 line item. Launch capability will be executed from the Evolved Expendable Launch Veh (Infrastructure) P-1 line item. Both these line items are necessary to achieve successful placement of National Security Space (NSS) space vehicles (SVs) on-orbit. Funding for this exhibit is contained in PE 0305953F. Related RDT&E, AF funding is contained in PE 0604853F. This exhibit only provides funding for Evolved Expendable Launch Veh (Infrastructure).

As of the FY16 PB submission, space programs procurement funding has been re-categorized from appropriation 3020, Missile Procurement Air Force (MPAF) to appropriation 3021, Space Procurement Air Force (SPAF), in FY16 and beyond. This exhibit will display values in Prior Years, PY, CY, and Total (for MPAF/3020) only; FY16 and beyond is displayed in the corresponding SPAF/3021 exhibits. Total Evolved Expendable Launch Veh (Infrastructure) procurement funding is \$14,529.370M

This program does not require and does not include advance procurement or initial spares. Flyaway Unit Cost is not applicable and Weapon System Unit Cost are not representative due to the mix (medium through heavy) of vehicles in the program. EELV procures launch services and is not a weapon system. The program provides launch capacity for Government National Launch Forecast (NLF) requirements, but does not take ownership of any specific launch hardware. The requirements for EELV launch services are derived from multiple spacecraft requirements. "To Complete" projections include only known requirements at this time.

The EELV program is a Major Defense Acquisition Program (MDAP) Acquisition Category (ACAT) 1D program that acquires launch services to provide critical space support required to satisfy Department of Defense (DoD) warfighter, national security, and other Government space lift missions while fostering interagency and commercial cooperation. The EELV program provides satellite delivery to specific orbits through certified launch vehicle providers. To maintain maximum flexibility to meet NSS requirements, Air Force acquires launch services through a white tail concept where designating configurations to specific missions is accomplished just-in-time to meet mission integration requirements.

The Air Force structured the EELV program with a new cost saving acquisition strategy that includes a quantity and rate commitment with the current provider and enables competition if one or more New Entrants are certified. This strategy stabilized the industrial base, provided predictability to maintain mission success, and reduced costs. The Air Force, National Reconnaissance Office (NRO), and the National Aeronautics and Space Administration (NASA) agreed to a coordinated strategy for certification of New Entrants to launch payloads in support of NSS and other USG requirements. The Air Force continues to actively evaluate the addition of New Entrants to reliably launch NSS requirements. Once a New Entrant demonstrates a successful launch the Air Force intends to award integration studies. If competition is not

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Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs		P-1 Line Item Number / Title: MSEELC / EVOLVED EXPENDABLE LAUNCH CAPABILITY
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0604853F
Line Item MDAP/MAIS Code: 176	Item MDAP/MAIS Code(s):	
<p>viable at the time of need, missions will be awarded to the incumbent. The Air Force plans to compete launch service procurements beginning in FY18, if there is more than one certified provider for some or all reference orbits. The implementation of this new strategy enables the DoD to reliably place NSS space vehicles into earth orbit.</p> <p>In 2013, the Air Force combined the Launch Services contract and Launch Capability contract into a single contract. The Launch Capability cost plus incentive fee contract line items are annual options and provide launch infrastructure support which includes, but is not limited to, systems and factory engineering, program management, standard integration/testing, launch and range activities, infrastructure, parts obsolescence mitigation, post mission analysis, and studies and analysis. The contract features a Mission Success Incentive fee which incentivizes both mission success and cost control for cost plus contract line items.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs

P-1 Line Item Number / Title:
MSEELC / EVOLVED EXPENDABLE LAUNCH CAPABILITY

ID Code (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:** 0604853F

Line Item MDAP/MAIS Code: 176 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
EVOLVED EXPENDABLE LAUNCH CAPABILITY	P-5, P-5a		- / 631.551	- / 559.413	- / 687.735	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 631.551	- / 559.413	- / 687.735	- / -	- / -	- / -

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
EVOLVED EXPENDABLE LAUNCH CAPABILITY	P-5, P-5a		- / -	- / -	- / -	- / -	- / -	- / 1,878.699
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 1,878.699

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

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

Justification:
As of the FY16 PB submission, space programs procurement funding has be re-categorized from appropriation 3020, Missile Procurement Air Force (MPAF) to appropriation 3021, Space Procurement Air Force (SPAF), in FY16 and beyond. This exhibit will display values in Prior Years, PY, CY, and Total (for MPAF/3020) only; FY16 and beyond is displayed in the corresponding SPAF/3021 exhibits.

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Exhibit P-5, Cost Analysis: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSEELC / EVOLVED EXPENDABLE LAUNCH CAPABILITY	Item Number / Title [DODIC]: - / EVOLVED EXPENDABLE LAUNCH CAPABILITY

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	631.551	559.413	687.735	-	-	-	-	-	-	-	-	1,878.699
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	631.551	559.413	687.735	-	-	-	-	-	-	-	-	1,878.699
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	631.551	559.413	687.735	-	-	-	-	-	-	-	-	1,878.699

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

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

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Launch - Launch End Item Cost																		
Recurring Cost																		
Launch Capability ⁽¹⁾	-	-	631.551	554.946	1	554.946	673.428	1	673.428	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	631.551	-	-	554.946	-	-	673.428	-	-	-	-	-	-	-	-	-
Subtotal: Launch - Launch End Item Cost	-	-	631.551	-	-	554.946	-	-	673.428	-	-	-	-	-	-	-	-	-
Support - Support End Item Cost																		
Program Management Administration - Other Government Costs	-	-	-	-	-	0.467	-	-	0.568	-	-	-	-	-	-	-	-	-
Range, Certification, and Other Direct Govt Costs	-	-	-	-	-	4.000	-	-	13.739	-	-	-	-	-	-	-	-	-
Subtotal: Support - Support End Item Cost	-	-	-	-	-	4.467	-	-	14.307	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	631.551	-	-	559.413	-	-	687.735	-	-	-	-	-	-	-	-	-

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Launch - Launch End Item Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Air Force													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1							P-1 Line Item Number / Title: MSEELC / EVOLVED EXPENDABLE LAUNCH CAPABILITY						Item Number / Title [DODIC]: - / EVOLVED EXPENDABLE LAUNCH CAPABILITY					

ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
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Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Recurring Cost																		
Launch Capability ^(t)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	929.963	2	1,859.925
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,859.925
<i>Subtotal: Launch - Launch End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,859.925
Support - Support End Item Cost																		
Program Management Administration - Other Government Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.035
Range, Certification, and Other Direct Govt Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.739
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.774
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,878.699

Remarks:

A revised Memorandum of Understanding (MOU) between the Air Force and National Reconnaissance Office (NRO), dated 7 October 2011 provides a cost share agreement for the Launch Capability of 75 percent (Air Force) and 25 percent(NRO).

Prior year funding buy-down of FY14 launch capability requirements contributed to meeting FY14 Bipartisan Budget Act (BBA) objectives.

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

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1			P-1 Line Item Number / Title: MSEELC / EVOLVED EXPENDABLE LAUNCH CAPABILITY				Item Number / Title [DODIC]: - / EVOLVED EXPENDABLE LAUNCH CAPABILITY					

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
Launch Capability		2014	United Launch Alliance (ULA) / CO	SS / Various	SMC, LA AFB, CA	Oct 2013	Oct 2013	1	554.946	Y		Mar 2012
Launch Capability		2015	United Launch Alliance (ULA) / CO	SS / Various	SMC, LA AFB, CA	Oct 2014	Oct 2014	1	673.428	Y		Mar 2012

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: MSEELV / Evolved Expendable Launch Veh(Space)
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ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0604853F
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Line Item MDAP/MAIS Code: 176	Item MDAP/MAIS Code(s):
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	36	5	4	-	-	-	-	-	-	-	-	45
Gross/Weapon System Cost <i>(\$ in Millions)</i>	10,187.441	807.991	732.003	-	-	-	-	-	-	-	-	11,727.435
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	10,187.441	807.991	732.003	-	-	-	-	-	-	-	-	11,727.435
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	10,187.441	807.991	732.003	-	-	-	-	-	-	-	-	11,727.435

(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>	282.984	161.598	183.001	-	-	-	-	-	-	-	-	260.610

Description:

As of the FY16 PB submission, space programs procurement funding has been re-categorized from appropriation 3020, Missile Procurement Air Force (MPAF) to appropriation 3021, Space Procurement Air Force (SPAF), in FY16 and beyond. This exhibit will display values in Prior Years, PY, CY, and Total (for 3020) only; FY16 and beyond is displayed in the corresponding SPAF/3021 exhibits. Total MPAF/SPAF (3020/3021) Evolved Expendable Launch Vehicle(Space) procurement funding is \$27,153.304M.

The Air Force requests funding for the Evolved Expendable Launch Vehicle (EELV) program in 2 separate P-1 line items. Launch services will be executed from the Evolved Expendable Launch Veh (Space) P-1 line item. Launch capability will be executed from the Evolved Expendable Launch Veh (Infrastructure) P-1 line item. Both line items are necessary to achieve successful placement of National Security Space (NSS) space vehicles (SVs) on-orbit. Funding for this exhibit is contained in PE 0305953F. Related RDT&E, AF funding is contained in PE 0604853F. This exhibit only provides funds for EELV (Space).

This program does not require and does not include advance procurement or initial spares. Flyaway Unit Cost is not applicable and Weapon System Unit Cost are not representative due to the mix (medium through heavy) of vehicles in the program. EELV procures launch services and is not a weapon system. The program provides launch capacity for Government National Launch Forecast (NLF) requirements, but does not take ownership of any specific launch hardware. The requirements for EELV launch services are derived from multiple spacecraft requirements. "To Complete" projections include only known requirements at this time.

The EELV program is a Major Defense Acquisition Program (MDAP) Acquisition Category (ACAT)1D program that acquires launch services to provide critical space support to satisfy Department of Defense (DoD) warfighter, national security, and other Government space lift missions while fostering inter-agency and commercial cooperation. The EELV program provides satellite delivery to specific orbits through certified Launch Vehicle (LV) providers. To maintain maximum flexibility to meet NSS requirements, the Air Force acquires launch services through a white tail concept, where designating configurations to specific missions is accomplished just-in-time to meet mission integration requirements.

The Air Force structured the EELV program with a new cost saving acquisition strategy that includes a quantity and rate commitment with the current provider and enables competition if one or more New Entrants are certified. This strategy stabilized the industrial base, provided predictability to maintain mission success, and reduced costs. The Air Force, National Reconnaissance Office (NRO), and the National Aeronautics and Space Administration (NASA) agreed to a coordinated strategy for certification of New Entrants to launch payloads in support of NSS and other USG requirements. The Air Force continues to actively evaluate the addition of New Entrants to reliably launch NSS requirements. Once a New Entrant demonstrates a successful launch the Air Force intends to award integration studies. If competition is not viable at the time of need, missions will be awarded to the incumbent. The Air Force plans to compete launch service procurements beginning in FY18, if there is more than one certified provider for some or all reference orbits. The implementation of this new strategy enables the DoD to reliably place NSS space vehicles into earth orbit.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs		P-1 Line Item Number / Title: MSEELV / Evolved Expendable Launch Veh(Space)
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0604853F
Line Item MDAP/MAIS Code: 176	Item MDAP/MAIS Code(s):	
<p>In 2013, the Air Force combined the Launch Services contract and Launch Capability contract into a single contract. The Launch Vehicle Production Services (LVPS) firm-fixed price contract line items include LV manufacturing, as well as a Mission Success Incentive fee which incentivizes mission success, and are fully funded. Launch propellants are acquired under EELV on a cost reimbursement contract line item.</p> <p>In 2015, Congress added an additional competitive "mission" that will be fully funded in the EELV P-1 line item (i.e., no Capability funds).</p>		

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

Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs

P-1 Line Item Number / Title:
MSEELV / Evolved Expendable Launch Veh(Space)

ID Code (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:** 0604853F

Line Item MDAP/MAIS Code: 176 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
Evolved Expendable Launch Veh(Space)	P-5, P-5a, P-21		36 / 10,187.441	5 / 807.991	4 / 732.003	- / -	- / -	- / -
Total Gross/Weapon System Cost			36 / 10,187.441	5 / 807.991	4 / 732.003	- / -	- / -	- / -

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
Evolved Expendable Launch Veh(Space)	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	45 / 11,727.435
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	45 / 11,727.435

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

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

Justification:

Not applicable (see Appropriation 3021, Space Procurement, Air Force documentation.) All non-Air Force EELV launch services are funded within their respective entities (e.g. NRO, Navy, etc.).

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Exhibit P-5, Cost Analysis: PB 2016 Air Force											Date: February 2015							
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1				P-1 Line Item Number / Title: MSEELV / Evolved Expendable Launch Veh(Space)						Item Number / Title [DODIC]: - / Evolved Expendable Launch Veh(Space)								
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:											
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total						
Procurement Quantity (<i>Units in Each</i>)	36	5	4	-	-	-	-	-	-	-	-	45						
Gross/Weapon System Cost (<i>\$ in Millions</i>)	10,187.441	807.991	732.003	-	-	-	-	-	-	-	-	11,727.435						
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-						
Net Procurement (P1) (<i>\$ in Millions</i>)	10,187.441	807.991	732.003	-	-	-	-	-	-	-	-	11,727.435						
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-						
Total Obligation Authority (<i>\$ in Millions</i>)	10,187.441	807.991	732.003	-	-	-	-	-	-	-	-	11,727.435						
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-						
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	282.984	161.598	183.001	-	-	-	-	-	-	-	-	260.610						
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost <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>
Launch - Launch End Item Cost																		
Recurring Cost																		
Launch Services ^(†)	107.349	36	3,864.570	149.923	5	749.616	134.961	4	539.843	-	-	-	-	-	-	-	-	-
Launch Capability	-	-	4,842.649	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	8,707.219	-	-	749.616	-	-	539.843	-	-	-	-	-	-	-	-	-
<i>Subtotal: Launch - Launch End Item Cost</i>	-	-	8,707.219	-	-	749.616	-	-	539.843	-	-	-	-	-	-	-	-	-
Support - Support End Item Cost																		
Program Management Administration - Other Government Costs	-	-	102.970	-	-	2.313	-	-	2.546	-	-	-	-	-	-	-	-	-
Program Management Administration - contractor services	-	-	158.085	-	-	8.443	-	-	10.655	-	-	-	-	-	-	-	-	-
Systems Engineering & Integration	-	-	64.870	-	-	-	-	-	18.714	-	-	-	-	-	-	-	-	-
Range, Certification, and Other Direct Govt Costs	-	-	72.054	-	-	15.017	-	-	39.481	-	-	-	-	-	-	-	-	-
Mission Assurance	-	-	602.593	-	-	32.602	-	-	120.764	-	-	-	-	-	-	-	-	-
Assured Access	-	-	479.650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	1,480.222	-	-	58.375	-	-	192.160	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSEELV / Evolved Expendable Launch Veh(Space)	Item Number / Title [DODIC]: - / Evolved Expendable Launch Veh(Space)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	282.984	36	10,187.441	161.598	5	807.991	183.001	4	732.003	-	-	-	-	-	-	-	-	-

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)

Launch - Launch End Item Cost																		
Recurring Cost																		
Launch Services ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114.534	45	5,154.029
Launch Capability	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,842.649
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,996.678
<i>Subtotal: Launch - Launch End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9,996.678

Support - Support End Item Cost																		
Program Management Administration - Other Government Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107.829
Program Management Administration - contractor services	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177.183
Systems Engineering & Integration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83.584
Range, Certification, and Other Direct Govt Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	126.552
Mission Assurance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	755.959
Assured Access	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	479.650
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,730.757
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	260.610	45	11,727.435

Remarks:
Flyaway is not applicable to a program that procures launch services. Unit cost varies due to the mix (medium through heavy lift) of vehicles in the program.

Launch infrastructure (capability) has been moved to a separate P-1 line item in accordance with direction in the Consolidated and Further Continuing Appropriations Act, 2013.

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Exhibit P-5, Cost Analysis: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSEELV / Evolved Expendable Launch Veh(Space)	Item Number / Title [DODIC]: - / Evolved Expendable Launch Veh(Space)
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>A revised Memorandum of Understanding (MOU) between the NRO and the Air Force, dated 7 October 2011, changed Federally-Funded Research and Development Center (FFRDC) Mission Assurance share ratio from 50/50 Air Force/NRO in FY12 to 60/40 Air Force/NRO in FY13.</p> <p>Program used FY 2013 to buy down FY 2014 Mission Assurance to meet the Bipartisan Budget Act (BBA) objective.</p> <p>All non-Air Force launch services are funded by their respective agencies.</p> <p>(t) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1			P-1 Line Item Number / Title: MSEELV / Evolved Expendable Launch Veh(Space)					Item Number / Title [DODIC]: - / Evolved Expendable Launch Veh(Space)				
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
Launch Services ^(†)		2012	United Launch Alliance/ Space X / CO/CA	SS / FFP	SMC, LA AFB, CA	Jan 2012	Jan 2014	5	138.267	Y		Jan 2010
Launch Services ^(†)		2013	United Launch Alliance / CO	SS / FFP	SMC, LA AFB, CA	Oct 2012	Oct 2014	4	143.833	Y		Jan 2012
Launch Services ^(†)		2014	United Launch Alliance (ULA)/Various / CO/Various	SS / Various	SMC, LA AFB, CA	Dec 2013	Dec 2015	5	149.923	Y		Mar 2012
Launch Services ^(†)		2015	United Launch Alliance (ULA)/ New Entrant / CO/Various	Various	SMC, LA AFB, CA	Jan 2015	Jan 2017	4	134.961	Y		Mar 2012

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Air Force															Date: February 2015														
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1										P-1 Line Item Number / Title: MSEELV / Evolved Expendable Launch Veh(Space)										Item Number / Title [DODIC]: - / Evolved Expendable Launch Veh(Space)									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2012															Fiscal Year 2013																
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	Calendar Year 2012															Calendar Year 2013														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L					
Launch Services																																				
Prior Years Deliveries: 27																																				
	1	2012	AF ⁽¹⁾	5	-	5				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5			
	2	2013	AF	4	-	4													A	-	-	-	-	-	-	-	-	-	-	-	-	-	4			
	3	2014	AF	5	-	5																											5			
	4	2015	AF	4	-	4																											4			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L					

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Exhibit P-21, Production Schedule: PB 2016 Air Force																							Date: February 2015														
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1											P-1 Line Item Number / Title: MSEELV / Evolved Expendable Launch Veh(Space)											Item Number / Title [DODIC]: - / Evolved Expendable Launch Veh(Space)															
Cost Elements <i>(Units in Each)</i>					Fiscal Year 2014													Fiscal Year 2015																			
O	C	R	F	Y	SERVICE	PROC	QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014													Calendar Year 2015														
										O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	B			
C	T	O	V	E	C	A	N	E	B	R	A	P	R	Y	N	L	G	P	T	V	C	N	B	R	P	A	Y	N	L	G	P	A	L				
Launch Services																																					
Prior Years Deliveries: 27																																					
1	2012	AF ⁽¹⁾	5	-	5	-	-	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
2	2013	AF	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
3	2014	AF	5	-	5			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5		
4	2015	AF	4	-	4																														4		

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Exhibit P-21, Production Schedule: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1		P-1 Line Item Number / Title: MSEELV / Evolved Expendable Launch Veh(Space)
		Item Number / Title [DODIC]: - / Evolved Expendable Launch Veh(Space)

MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	United Launch Alliance/ Space X - CO/CA	-	-	-	-	-	-	-	-	-	-	-	-
2	United Launch Alliance - CO	-	-	-	-	-	-	-	-	-	-	-	-
3	United Launch Alliance (ULA)/Various - CO/Various	-	-	-	-	-	-	-	-	-	-	-	-
4	United Launch Alliance (ULA)/New Entrant - CO/ Various	1	8	10	-	-	-	-	-	1	4	24	28

"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 2013 loaded in the month of first delivery.

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs	P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)
---	--

ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0604441F
---	---	---

Line Item MDAP/MAIS Code: 210	Item MDAP/MAIS Code(s):
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	6	-	-	-	-	-	-	-	-	-	-	6
Gross/Weapon System Cost <i>(\$ in Millions)</i>	4,335.407	524.587	444.567	-	-	-	-	-	-	-	-	5,304.561
Less PY Advance Procurement <i>(\$ in Millions)</i>	1,210.092	-	-	-	-	-	-	-	-	-	-	1,210.092
Net Procurement (P1) <i>(\$ in Millions)</i>	3,125.315	524.587	444.567	-	-	-	-	-	-	-	-	4,094.469
Plus CY Advance Procurement <i>(\$ in Millions)</i>	1,210.092	-	-	-	-	-	-	-	-	-	-	1,210.092
Total Obligation Authority <i>(\$ in Millions)</i>	4,335.407	524.587	444.567	-	-	-	-	-	-	-	-	5,304.561

(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>	722.568	-	-	-	-	-	-	-	-	-	-	884.094

Description:

Note 1: As of the FY16 PB submission, space programs satellite procurement funding has been re-categorized from appropriation 3020, Missile Procurement Air Force (MPAF) to appropriation 3021, Space Procurement Air Force (SPAF), in FY16 and beyond. This exhibit will display values in "Prior Years, PY, CY, and Total (for 3020)" only; FY16 and beyond is displayed in the corresponding SPAF/3021 exhibits. Total 3020/3021 procurement funding is \$7,494.947M.

Note 2: This P-40 describes SBIRS funding in PE0305915F. The associated RDT&E funding is in RDT&E, AF PE 0604441F.

Note 3: The flyaway unit cost is not included on the P-40 exhibit because there are multiple P-5 Cost Analysis exhibits.

Description:

SBIRSs primary mission is to provide initial warning of a ballistic missile attack on the US, its deployed forces and its allies. SBIRS enhances detection and improves reporting of intercontinental ballistic missiles, submarine launched ballistic missiles, and tactical ballistic missiles. SBIRS provides increased detection and tracking performance in order to meet requirements in the Operational Requirements Document (ORD). SBIRS will consist of satellites in Geosynchronous Earth Orbit (GEO) and payloads in Highly Elliptical Orbit (HEO) with an integrated, centralized ground station serving all SBIRS space elements, Defense Support Program (DSP) satellites and other program related support activities. The HEO payloads operate on a classified host.

SBIRS GEO-3 and 4 satellites are derivatives of the first two GEO satellites which were delivered on the SBIRS Engineering and Manufacturing Development (EMD) contract (RDT&E funded). The GEO-3 and 4 satellite production efforts are necessary to meet constellation requirements. In December 2008, the Department approved the procurement of GEO-3 and 4 satellites and the HEO-3 and 4 payloads using a Cost-Plus contract. In order to minimize the number of storage actions and costs, and comply with the next assigned Initial Launch Capability (ILC) date of no earlier than April 2016, GEO-3 will be placed into storage. GEO-4 is planned to launch next (GEO flight #3) with GEO-3 remaining in storage and launching GEO-4 directly out of production. GEO-4, now flight #3, will launch upon production completion in 3rd quarter FY16. GEO-3s (flight #4) projected launch window is now not earlier than 4th quarter FY17.

GEO-5 and 6 satellites are planned as derivatives of the GEO-3 and 4 satellites and will be replacements for GEOs 1 and 2. A three-phased contract approach awarded non-recurring engineering and parts obsolescence using advanced procurement funds on 10 Sep 2012, followed by award of long lead items on 19 Feb 2013 and full production on 24 Jun 2014. The full production effort includes 2 satellites, launch vehicle integration, launch and early orbit test, dual band modification (unified S-Band), contractor operations support through operational acceptance, and Interim Contractor Support (ICS).

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Exhibit P-40, Budget Line Item Justification: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs		P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)
ID Code (A=Service Ready, B=Not Service Ready) : A	Program Elements for Code B Items:	Other Related Program Elements: 0604441F
Line Item MDAP/MAIS Code: 210	Item MDAP/MAIS Code(s):	
<p>GEO-5 and 6 are being procured through the Department of Defense Efficient Space Procurement (ESP) approach, which seeks stable production and strategic sub-tier management through the block buy of space vehicles employing fixed-priced contracting. The SBIRS block buy of two satellites enables savings by reducing the effect of obsolescence and production breaks. Additionally, ESP seeks cost efficiencies with the prime and subcontractor team through block buys and a healthy space industrial base.</p> <p>For the GEO 5-6 block buy, the FY13 NDAA authorizes six years of incremental funding and limits the incrementally funded contract obligation to \$3,900M. The years of incremental funding are FY13-18. Advance procurement was appropriated in FY11 and FY12. GEO 5-6 advance procurement and incremental funding are attributed to FY13 for the purposes of identifying full funding for procurement end items. Each year of appropriation FY13-18 is in two parts, the incrementally funded contract amount and annual program support costs. The incrementally funded amount complies with the NDAA cap.</p> <p>SBIRS HEO-3 and 4 payloads are replenishments for HEO-1 and 2 payloads, which were delivered on the SBIRS Engineering and Manufacturing Development (EMD) contract (RDT&E funded). The HEO-1 and 2 payloads are on-orbit and certified for Integrated Tactical Warning/Attack Assessment (ITW/AA) missile warning operations and certified for technical intelligence operations. HEO-3 payload has been delivered to the classified host.</p> <p>To-complete costs are zero for SBIRS GEO 3-4 per the SBIRS Service Cost Position (SCP) dated April 14, 2011. To-complete costs for GEOs 5-6 are based on continuing Program Office support through satellite delivery.</p> <p>Total GEO 3-4 3020/3021 funds are \$2,846.667M. Total GEO 5-6 3020/3021 funds are \$3,499.011M. Total HEO 3-4 3020/3021 funds are \$1,149.269M.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs **P-1 Line Item Number / Title:** MSSBIR / SBIR High (Space)

ID Code (A=Service Ready, B=Not Service Ready) : A **Program Elements for Code B Items:** **Other Related Program Elements:** 0604441F

Line Item MDAP/MAIS Code: 210 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
GEO 3-4	P-5, P-5a, P-21		2 / 2,494.684	- / 69.657	- / 95.189	- / -	- / -	- / -
GEO 5-6	P-5, P-5a, P-21		2 / 794.938	- / 425.543	- / 313.895	- / -	- / -	- / -
HEO 3-4	P-5, P-5a, P-21		2 / 1,045.785	- / 29.387	- / 35.483	- / -	- / -	- / -
Total Gross/Weapon System Cost			6 / 4,335.407	- / 524.587	- / 444.567	- / -	- / -	- / -

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
GEO 3-4	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	2 / 2,659.530
GEO 5-6	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	2 / 1,534.376
HEO 3-4	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	2 / 1,110.655
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	6 / 5,304.561

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

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

Justification:

Not applicable (see Appropriation 3021, SPAF, documentation).

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Exhibit P-5, Cost Analysis: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)	Item Number / Title [DODIC]: - / GEO 3-4

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	2	-	-	-	-	-	-	-	-	-	-	2
Gross/Weapon System Cost (\$ in Millions)	2,494.684	69.657	95.189	-	-	-	-	-	-	-	-	2,659.530
Less PY Advance Procurement (\$ in Millions)	545.127	-	-	-	-	-	-	-	-	-	-	545.127
Net Procurement (P1) (\$ in Millions)	1,949.557	69.657	95.189	-	-	-	-	-	-	-	-	2,114.403
Plus CY Advance Procurement (\$ in Millions)	545.127	-	-	-	-	-	-	-	-	-	-	545.127
Total Obligation Authority (\$ in Millions)	2,494.684	69.657	95.189	-	-	-	-	-	-	-	-	2,659.530

(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)	1,247.342	-	-	-	-	-	-	-	-	-	-	1,329.765

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Space Vehicle - GEO 3-4 Cost																		
Recurring Cost																		
GEO 3-4 Hardware	-	-	1,396.849	-	-	1.981	-	-	14.739	-	-	-	-	-	-	-	-	-
GEO 3-4 Integration and Assembly	-	-	433.027	-	-	11.224	-	-	30.792	-	-	-	-	-	-	-	-	-
GEO 3-4 Enterprise Systems Engineering & Integration (SE&I)	-	-	25.372	-	-	6.498	-	-	7.885	-	-	-	-	-	-	-	-	-
GEO 3-4 Satellites ^(†)	1,423.334	2	2,846.667	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEO 3-4 Satellites Debit	-	-	-2,846.667	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	1,855.248	-	-	19.703	-	-	53.416	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
GEO 3-4 Obsolescence Non-Recurring	-	-	438.772	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEO 3-4 Launch Vehicle and Range Integration	-	-	1.807	-	-	4.284	-	-	6.747	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	440.579	-	-	4.284	-	-	6.747	-	-	-	-	-	-	-	-	-
Subtotal: Space Vehicle - GEO 3-4 Cost	-	-	2,295.827	-	-	23.987	-	-	60.163	-	-	-	-	-	-	-	-	-
Checkout and Launch - GEO 3-4 Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1						P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)						Item Number / Title [DODIC]: - / GEO 3-4					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:							

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
GEO 3-4 Launch Ops & Checkout	-	-	70.212	-	-	14.710	-	-	21.722	-	-	-	-	-	-	-	-	-
Interim Contractor Support (ICS)	-	-	-	-	-	21.753	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Checkout and Launch - GEO 3-4 Cost</i>	-	-	70.212	-	-	36.463	-	-	21.722	-	-	-	-	-	-	-	-	-
Support - GEO 3-4 Cost																		
GEO 3-4 Other Support	-	-	20.245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEO 3-4 FFRDC	-	-	56.695	-	-	0.231	-	-	-	-	-	-	-	-	-	-	-	-
GEO 3-4 Advisory and Assistance Services (A&AS) (PMA)	-	-	48.945	-	-	8.150	-	-	12.123	-	-	-	-	-	-	-	-	-
GEO 3-4 Program Support (PMA: Travel, Supplies, etc.)	-	-	2.760	-	-	0.826	-	-	1.181	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - GEO 3-4 Cost</i>	-	-	128.645	-	-	9.207	-	-	13.304	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	1,247.342	2	2,494.684	-	-	69.657	-	-	95.189	-	-	-	-	-	-	-	-	-

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Space Vehicle - GEO 3-4 Cost																		
Recurring Cost																		
GEO 3-4 Hardware	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,413.569
GEO 3-4 Integration and Assembly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	475.043
GEO 3-4 Enterprise Systems Engineering & Integration (SE&I)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.755
GEO 3-4 Satellites ^(f1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,423.334	2	2,846.667
GEO 3-4 Satellites Debit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-2,846.667
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,928.367
Non Recurring Cost																		
GEO 3-4 Obsolescence Non-Recurring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	438.772

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** MSSBIR / SBIR High (Space) **Item Number / Title [DODIC]:** - / GEO 3-4

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

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
GEO 3-4 Launch Vehicle and Range Integration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.838
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	451.610
<i>Subtotal: Space Vehicle - GEO 3-4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,379.977
Checkout and Launch - GEO 3-4 Cost																		
GEO 3-4 Launch Ops & Checkout	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106.644
Interim Contractor Support (ICS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.753
<i>Subtotal: Checkout and Launch - GEO 3-4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	128.397
Support - GEO 3-4 Cost																		
GEO 3-4 Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.245
GEO 3-4 FFRDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56.926
GEO 3-4 Advisory and Assistance Services (A&AS) (PMA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69.218
GEO 3-4 Program Support (PMA: Travel, Supplies, etc.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.767
<i>Subtotal: Support - GEO 3-4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	151.156
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,329.765	2,659.530

Remarks:
Total GEO 3-4 3020/3021 funds are \$2,846.667M

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)	Item Number / Title [DODIC]: - / GEO 3-4
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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
GEO 3-4 Satellites ^(†)		2009 (1)	Lockheed Martin Space Systems / Sunnyvale, CA	SS / BA	LAAFB, CA	Mar 2008	Jul 2017	1	1,817.606	Y		Jul 2007
GEO 3-4 Satellites ^(†)		2011 (2)	Lockheed Martin Space Systems / Sunnyvale, CA	SS / BA	LAAFB, CA	Jul 2009	Feb 2016	1	1,029.061	Y		Jul 2007

^(†) indicates the presence of a P-21

Remarks:

Unit costs include space vehicle launch operations, checkout support, contractor facility support essential to launch operations & satellite/qualification software, all costs required to reach operational acceptance, and other government costs.

GEO-3 (FY2009) is burdened by the non-recurring engineering for obsolescence and the majority of Systems Engineering & Program Management (SEPM) costs for the follow-on production contract (GEO-3 & 4). It therefore has a higher unit cost than GEO-4.

Unit Cost is comprised of both 3020 and 3021 procurement funds.

Footnotes:

⁽¹⁾ GEO-3 Satellite

⁽²⁾ GEO-4 Satellite

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** MSSBIR / SBIR High (Space) **Item Number / Title [DODIC]:** - / GEO 3-4

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2010												Fiscal Year 2011													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2009	BAL DUE AS OF 1 OCT	Calendar Year 2010												Calendar Year 2011												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
GEO 3-4 Satellites																															
	1	2009	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	1	2011	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** MSSBIR / SBIR High (Space) **Item Number / Title [DODIC]:** - / GEO 3-4

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2012												Fiscal Year 2013														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	Calendar Year 2012												Calendar Year 2013												B A L	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
GEO 3-4 Satellites																																
	1	2009	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	1	2011	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)	Item Number / Title [DODIC]: - / GEO 3-4
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
GEO 3-4 Satellites																																
	1	2009	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	1	2011	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Air Force	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)	Item Number / Title [DODIC]: - / GEO 3-4
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MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Lockheed Martin Space Systems - Sunnyvale, CA	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

SBIRS GEO-4 (Flight #3) is scheduled for delivery in February 2016. SBIRS GEO-3 (Flight #4) is scheduled to enter storage in 2Q CY15.

"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-5, Cost Analysis: PB 2016 Air Force										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1					P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)					Item Number / Title [DODIC]: - / GEO 5-6			

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	2	-	-	-	-	-	-	-	-	-	-	2
Gross/Weapon System Cost <i>(\$ in Millions)</i>	794.938	425.543	313.895	-	-	-	-	-	-	-	-	1,534.376
Less PY Advance Procurement <i>(\$ in Millions)</i>	486.814	-	-	-	-	-	-	-	-	-	-	486.814
Net Procurement (P1) <i>(\$ in Millions)</i>	308.124	425.543	313.895	-	-	-	-	-	-	-	-	1,047.562
Plus CY Advance Procurement <i>(\$ in Millions)</i>	486.814	-	-	-	-	-	-	-	-	-	-	486.814
Total Obligation Authority <i>(\$ in Millions)</i>	794.938	425.543	313.895	-	-	-	-	-	-	-	-	1,534.376

(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>	397.469	-	-	-	-	-	-	-	-	-	-	767.188

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Space Vehicle - GEO 5-6 Cost																		
Recurring Cost																		
GEO 5-6 Hardware	-	-	1,469.401	-	-	292.916	-	-	186.323	-	-	-	-	-	-	-	-	-
GEO 5-6 Integration and Assembly	-	-	437.748	-	-	18.142	-	-	24.285	-	-	-	-	-	-	-	-	-
FY14 Incremental Funding	-	-	-311.058	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY15 Incremental Funding	-	-	-210.608	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY16 Incremental Funding (3021)	-	-	-275.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY17 Incremental Funding (3021)	-	-	-164.870	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY18 Incremental Funding (3021)	-	-	-453.744	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEO 5-6 Satellites ^(ft)	1,749.506	2	3,499.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEO 5-6 Satellites Debit	-	-	-3,499.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEO 5-6 Systems Engineering & Integration (SE&I)	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	491.849	-	-	311.058	-	-	210.608	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** MSSBIR / SBIR High (Space) **Item Number / Title [DODIC]:** - / GEO 5-6

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

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
GEO 5-6 Obsolescence Non- Recurring	-	-	461.824	-	-	77.942	-	-	59.461	-	-	-	-	-	-	-	-	-
FY14 Incremental Funding	-	-	-77.942	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY15 Incremental Funding	-	-	-59.461	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY16 Incremental Funding (3021)	-	-	-25.508	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY17 Incremental Funding (3021)	-	-	-13.235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY18 Incremental Funding (3021)	-	-	-4.712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEO 5-6 Launch Vehicle and Range Integration	-	-	0.158	-	-	0.286	-	-	1.971	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	281.124	-	-	78.228	-	-	61.432	-	-	-	-	-	-	-	-	-
<i>Subtotal: Space Vehicle - GEO 5-6 Cost</i>	-	-	772.973	-	-	389.286	-	-	272.040	-	-	-	-	-	-	-	-	-
Checkout and Launch - GEO 5-6 Cost																		
GEO 5-6 Launch Ops & Checkout	-	-	290.585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY17 Incremental Funding (3021)	-	-	-3.271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FY18 Incremental Funding (3021)	-	-	-287.314	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Checkout and Launch - GEO 5-6 Cost</i>	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - GEO 5-6 Cost																		
GEO 5-6 Other Support	-	-	7.475	-	-	9.200	-	-	7.941	-	-	-	-	-	-	-	-	-
GEO 5-6 FFRDC	-	-	14.460	-	-	27.057	-	-	33.914	-	-	-	-	-	-	-	-	-
GEO 5-6 Advisory and Assistance Services (A&AS) (PMA)	-	-	0.030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEO 5-6 Program Support (PMA: Travel, Supplies, etc.)	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - GEO 5-6 Cost</i>	-	-	21.965	-	-	36.257	-	-	41.855	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** MSSBIR / SBIR High (Space) **Item Number / Title [DODIC]:** - / GEO 5-6

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

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	397.469	2	794.938	-	-	425.543	-	-	313.895	-	-	-	-	-	-	-	-	-

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)

Space Vehicle - GEO 5-6 Cost

Recurring Cost

GEO 5-6 Hardware	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,948.640
GEO 5-6 Integration and Assembly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	480.175
FY14 Incremental Funding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-311.058
FY15 Incremental Funding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-210.608
FY16 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-275.020
FY17 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-164.870
FY18 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-453.744
GEO 5-6 Satellites ^(ft)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,749.506	2	3,499.011
GEO 5-6 Satellites Debit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-3,499.011
GEO 5-6 Systems Engineering & Integration (SE&I)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,013.515

Non Recurring Cost

GEO 5-6 Obsolescence Non-Recurring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	599.227
FY14 Incremental Funding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-77.942
FY15 Incremental Funding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-59.461
FY16 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-25.508

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** MSSBIR / SBIR High (Space) **Item Number / Title [DODIC]:** - / GEO 5-6

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

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
FY17 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-13.235
FY18 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-4.712
GEO 5-6 Launch Vehicle and Range Integration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.415
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	420.784
<i>Subtotal: Space Vehicle - GEO 5-6 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,434.299
Checkout and Launch - GEO 5-6 Cost																		
GEO 5-6 Launch Ops & Checkout	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	290.585
FY17 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-3.271
FY18 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-287.314
<i>Subtotal: Checkout and Launch - GEO 5-6 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support - GEO 5-6 Cost																		
GEO 5-6 Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.616
GEO 5-6 FFRDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75.431
GEO 5-6 Advisory and Assistance Services (A&AS) (PMA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.030
GEO 5-6 Program Support (PMA: Travel, Supplies, etc.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - GEO 5-6 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.077
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	767.188	2	1,534.376

Remarks:

The GEO 5-6 incrementally funded amount includes the above Total Space Vehicle Cost (less: SE&I and Launch Vehicle & Range Integration), Launch Ops & Checkout Cost, and Interim Contractor Support through transition to sustainment. Total incrementally funded amount of \$2,756.1M complies with FY13 NDAA limiting procurement cost to \$3,900M.

The Prior Year gross weapon system cost includes advance procurement amount of \$243.314M appropriated in FY11 and \$243.500M appropriated in FY12.

Total GEO 5-6 3020/3021 funds are \$3,499.011M

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Exhibit P-5, Cost Analysis: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)	Item Number / Title [DODIC]: - / GEO 5-6
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)	Item Number / Title [DODIC]: - / GEO 5-6
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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
GEO 5-6 Satellites ^(†)		2013	Lockheed Martin Space Systems / Sunnyvale, CA	SS / BA	LAAFB, CA	Jun 2014	Sep 2020	2	1,749.505	Y		Dec 2012

^(†) indicates the presence of a P-21

Remarks:

Unit costs include space vehicle launch operations, checkout support, contractor facility support essential to launch operations & satellite/qualification software, all costs required to reach operational acceptance, and other government costs.

GEO 5-6 Dates of Delivery are September 2020 & July 2021 respectively.

Unit Cost is comprised of both 3020 and 3021 procurement funds.

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** MSSBIR / SBIR High (Space) **Item Number / Title [DODIC]:** - / GEO 5-6

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
GEO 5-6 Satellites																															
	1	2013	AF	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** MSSBIR / SBIR High (Space) **Item Number / Title [DODIC]:** - / GEO 5-6

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
GEO 5-6 Satellites																															
	1	2013	AF	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** MSSBIR / SBIR High (Space) **Item Number / Title [DODIC]:** - / GEO 5-6

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020												Fiscal Year 2021													
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	B A L
GEO 5-6 Satellites																															
	1	2013	AF	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)	Item Number / Title [DODIC]: - / GEO 5-6
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MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Lockheed Martin Space Systems - Sunnyvale, CA	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:
SBIRS GEO-5 is scheduled for delivery in September 2020. SBIRS GEO-6 is scheduled for delivery in July 2021.

"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-5, Cost Analysis: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)	Item Number / Title [DODIC]: - / HEO 3-4

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (Units in Each)	2	-	-	-	-	-	-	-	-	-	-	2
Gross/Weapon System Cost (\$ in Millions)	1,045.785	29.387	35.483	-	-	-	-	-	-	-	-	1,110.655
Less PY Advance Procurement (\$ in Millions)	178.151	-	-	-	-	-	-	-	-	-	-	178.151
Net Procurement (P1) (\$ in Millions)	867.634	29.387	35.483	-	-	-	-	-	-	-	-	932.504
Plus CY Advance Procurement (\$ in Millions)	178.151	-	-	-	-	-	-	-	-	-	-	178.151
Total Obligation Authority (\$ in Millions)	1,045.785	29.387	35.483	-	-	-	-	-	-	-	-	1,110.655

(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)	522.893	-	-	-	-	-	-	-	-	-	-	555.328

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Space Vehicle - HEO 3-4 Cost																		
Recurring Cost																		
HEO 3-4 Hardware	-	-	356.042	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HEO 3-4 Integration and Assembly	-	-	197.866	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HEO 3-4 Enterprise Systems Engineering & Integration (SE&I)	-	-	10.792	-	-	6.694	-	-	6.827	-	-	-	-	-	-	-	-	-
HEO 3-4 Payloads ^(†)	574.635	2	1,149.269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HEO 3-4 Payloads Debit	-	-	-1,149.269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	564.700	-	-	6.694	-	-	6.827	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
HEO 3-4 Obsolescence Non-Recurring	-	-	155.384	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HEO 3-4 Launch Vehicle and Range Integration	-	-	3.371	-	-	-	-	-	0.232	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	158.755	-	-	-	-	-	0.232	-	-	-	-	-	-	-	-	-
Subtotal: Space Vehicle - HEO 3-4 Cost	-	-	723.455	-	-	6.694	-	-	7.059	-	-	-	-	-	-	-	-	-
Checkout and Launch - HEO 3-4 Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Air Force												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1						P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)						Item Number / Title [DODIC]: - / HEO 3-4					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

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

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
HEO Host Accommodation	-	-	232.152	-	-	2.285	-	-	2.855	-	-	-	-	-	-	-	-	-
HEO 3-4 Launch Ops & Checkout	-	-	31.033	-	-	11.018	-	-	14.036	-	-	-	-	-	-	-	-	-
<i>Subtotal: Checkout and Launch - HEO 3-4 Cost</i>	-	-	263.185	-	-	13.303	-	-	16.891	-	-	-	-	-	-	-	-	-
Support - HEO 3-4 Cost																		
HEO 3-4 Other Support	-	-	8.671	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HEO 3-4 FFRDC	-	-	25.089	-	-	0.126	-	-	-	-	-	-	-	-	-	-	-	-
HEO 3-4 Advisory and Assistance Services (A&S) (PMA)	-	-	24.085	-	-	8.397	-	-	10.510	-	-	-	-	-	-	-	-	-
HEO 3-4 Program Support (PMA: Travel, Supplies, etc.)	-	-	1.300	-	-	0.867	-	-	1.023	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - HEO 3-4 Cost</i>	-	-	59.145	-	-	9.390	-	-	11.533	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	522.893	2	1,045.785	-	-	29.387	-	-	35.483	-	-	-	-	-	-	-	-	-

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Space Vehicle - HEO 3-4 Cost																		
Recurring Cost																		
HEO 3-4 Hardware	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	356.042
HEO 3-4 Integration and Assembly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	197.866
HEO 3-4 Enterprise Systems Engineering & Integration (SE&I)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.313
HEO 3-4 Payloads ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	574.635	2	1,149.269
HEO 3-4 Payloads Debit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-1,149.269
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	578.221
Non Recurring Cost																		
HEO 3-4 Obsolescence Non-Recurring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	155.384

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Exhibit P-5, Cost Analysis: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** MSSBIR / SBIR High (Space) **Item Number / Title [DODIC]:**
- / HEO 3-4

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

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
HEO 3-4 Launch Vehicle and Range Integration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,603
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158,987
<i>Subtotal: Space Vehicle - HEO 3-4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	737,208
Checkout and Launch - HEO 3-4 Cost																		
HEO Host Accommodation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	237,292
HEO 3-4 Launch Ops & Checkout	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56,087
<i>Subtotal: Checkout and Launch - HEO 3-4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	293,379
Support - HEO 3-4 Cost																		
HEO 3-4 Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,671
HEO 3-4 FFRDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25,215
HEO 3-4 Advisory and Assistance Services (A&AS) (PMA)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42,992
HEO 3-4 Program Support (PMA: Travel, Supplies, etc.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,190
<i>Subtotal: Support - HEO 3-4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80,068
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	555.328	2	1,110,655

Remarks:
Total HEO 3-4 3020/3021 funds are \$1,149.269M.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)	Item Number / Title [DODIC]: - / HEO 3-4
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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
HEO 3-4 Payloads ^(†)		2009 (3)	Lockheed Martin Space Systems / Sunnyvale, CA	SS / BA	LAAFB, CA	Mar 2008	Jun 2013	1	721.172	Y		Jul 2007
HEO 3-4 Payloads ^(†)		2010 (4)	Lockheed Martin Space Systems / Sunnyvale, CA	SS / BA	LAAFB, CA	Jul 2009	Apr 2015	1	428.098	Y		Jul 2007

^(†) indicates the presence of a P-21

Remarks:

Unit costs include space vehicle launch operations, checkout support, contractor facility support essential to launch operations & satellite/qualification software, all costs required to reach operational acceptance, and other government costs.

HEO-3 (FY2009) is burdened by the non-recurring engineering for obsolescence and the majority of Systems Engineering & Program Management (SEPM) costs for the follow-on production contract (HEO-3 & 4). It therefore has a higher unit price than HEO-4.

Unit Cost is comprised of both 3020 and 3021 procurement funds.

Footnotes:

⁽³⁾ HEO-3 Payload

⁽⁴⁾ HEO-4 Payload

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** MSSBIR / SBIR High (Space) **Item Number / Title [DODIC]:** - / HEO 3-4

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2010												Fiscal Year 2011																	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2009	BAL DUE AS OF 1 OCT	Calendar Year 2010												Calendar Year 2011												B A L				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
HEO 3-4 Payloads																																			
	1	2009	AF ⁽⁵⁾	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	1	2010	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L				

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)	Item Number / Title [DODIC]: - / HEO 3-4
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2012												Fiscal Year 2013													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	Calendar Year 2012												Calendar Year 2013												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
HEO 3-4 Payloads																															
	1	2009	AF ⁽⁵⁾	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
	1	2010	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1 **P-1 Line Item Number / Title:** MSSBIR / SBIR High (Space) **Item Number / Title [DODIC]:** - / HEO 3-4

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
HEO 3-4 Payloads																															
	1	2009	AF ⁽⁵⁾	1	1	-																									
	1	2010	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Air Force	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1	P-1 Line Item Number / Title: MSSBIR / SBIR High (Space)	Item Number / Title [DODIC]: - / HEO 3-4
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MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Lockheed Martin Space Systems - Sunnyvale, CA	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:
SBIRS HEO-3 payload was delivered in June 2013. SBIRS HEO-4 payload (as shown above) is scheduled for delivery in April 2015.

"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:
(5) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2013 loaded in the month of first delivery.

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

Appropriation / Budget Activity / Budget Sub Activity:
3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs

P-1 Line Item Number / Title:
MSPPRG / Special Update Programs

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

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	24.371	60.179	276.562	-	276.562	51.570	28.637	293.564	444.823	-	1,179.706
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	24.371	60.179	276.562	-	276.562	51.570	28.637	293.564	444.823	-	1,179.706
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	24.371	60.179	276.562	-	276.562	51.570	28.637	293.564	444.823	-	1,179.706

(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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