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**Department of Defense
Fiscal Year (FY) 2017 President's Budget Submission**

February 2016



Air Force

Justification Book Volume 1 of 1

Missile Procurement, Air Force

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Air Force • President's Budget Submission FY 2017 • Procurement

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**Appropriation Language
Fiscal Year (FY) 2017 President's Budget
Missile Procurement, Air Force**

For construction, procurement, and modification of missiles, rockets, and related equipment, including spare parts and accessories therefor, ground handling equipment, and training devices; expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents, transportation of things, and overseas contingency operations, \$2,766,166,000, to remain available for obligations until September 30, 2019.

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Department of the Air Force
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
(Dollars in Thousands)

27 Jan 2016

Appropriation: Missile Procurement, Air Force

Budget Activity	FY 2015 (Base & OCO)	FY 2016 Base Enacted	FY 2016 OCO Enacted	FY 2016 Total Enacted
01. Ballistic Missiles	80,005	93,715		93,715
02. Other Missiles	1,199,273	1,553,663	283,422	1,837,085
03. Modification of Inservice Missiles	52,002	85,128	5,720	90,848
04. Spares and Repair Parts	87,364	48,523		48,523
05. Other Support	3,533,560	1,129,183		1,129,183
Total Missile Procurement, Air Force	4,952,204	2,910,212	289,142	3,199,354

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Department of the Air Force
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
(Dollars in Thousands)

27 Jan 2016

Appropriation: Missile Procurement, Air Force

Budget Activity	FY 2017 Base	FY 2017 OCO	FY 2017 Total
01. Ballistic Missiles	70,247		70,247
02. Other Missiles	1,096,031	312,925	1,408,956
03. Modification of Inservice Missiles	123,180	26,620	149,800
04. Spares and Repair Parts	81,607		81,607
05. Other Support	1,055,556		1,055,556
Total Missile Procurement, Air Force	2,426,621	339,545	2,766,166

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Department of the Air Force
FY 2017 President's Budget
Exhibit P-1 FY 2017 President's Budget
Total Obligational Authority
(Dollars in Thousands)

27 Jan 2016

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2015 (Base & OCO) Quantity	FY 2015 (Base & OCO) Cost	FY 2016 Base Enacted Quantity	FY 2016 Base Enacted Cost	FY 2016 OCO Enacted Quantity	FY 2016 OCO Enacted Cost	FY 2016 Total Enacted Quantity	FY 2016 Total Enacted Cost	S e c
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9 ICBM FUZE MOD	A				U
10 MM III Modifications	A	28,422	50,273	50,273	U
11 AGM-65D Maverick	A	276	9,639	5,720	15,359 U

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Department of the Air Force
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 Exhibit P-1 FY 2017 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

27 Jan 2016

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017		FY 2017		FY 2017		S e c
			Base Quantity	Cost	OCO Quantity	Cost	Total Quantity	Cost	
Budget Activity 01: Ballistic Missiles									

Missile Replacement Equipment - Ballistic									
1	Missile Replacement Eq-Ballistic	A	70,247			70,247	U		
Total Ballistic Missiles									
			70,247			70,247			
Budget Activity 02: Other Missiles									

Tactical									
2	Joint Air-Surface Standoff Missile		360	431,645		360	431,645	U	
3	LRASM0		20	59,511		20	59,511	U	
4	Sidewinder (AIM-9X)	A	287	127,438		287	127,438	U	
5	AMRAAM	A	256	350,144		256	350,144	U	
6	Predator Hellfire Missile	A	284	33,955	1252	145,125	1536	179,080	U
7	Small Diameter Bomb	A	312	92,361	4195	167,800	4507	260,161	U
Industrial Facilities									
8	Industr'l Preparedns/Pol Prevention	A	977			977	U		
Total Other Missiles									
			1,096,031		312,925	1,408,956			
Budget Activity 03: Modification of Inservice Missiles									

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9 ICBM FUZE MOD	A	17,095	17,095	U	
10 MM III Modifications	A	68,692	68,692	U	
11 AGM-65D Maverick	A	282	26,620	26,902	U

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27 Jan 2016

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	FY 2015		FY 2016		FY 2016		FY 2016		S e c
		Ident Code	(Base & OCO) Quantity	Base Quantity	Enacted Cost	OCO Enacted Cost	Total Enacted Quantity	Cost		
12	AGM-88A Harm	A	297		197			197	U	
13	Air Launch Cruise Missile (ALCM)	A	16,083		25,019			25,019	U	
14	Small Diameter Bomb	A	6,924						U	
Total Modification of Inservice Missiles			52,002		85,128		5,720	90,848		
Budget Activity 04: Spares and Repair Parts										
Missile Spares and Repair Parts										
15	Initial Spares/Repair Parts	A	87,364		48,523			48,523	U	
Total Spares and Repair Parts			87,364		48,523			48,523		
Budget Activity 05: Other Support										
Space Programs										
16	Advanced EHF	A	298,462						U	
17	Cancelled Account	A	42						U	
18	Wideband Gapfiller Satellites(Space)	A	36,071						U	
19	GPS III Space Segment Less: Advance Procurement (PY)	A	(277,493) (-52,167)						U U	
			225,326							
20	GPS III Space Segment Advance Procurement (CY) C (FY 2015 for FY 2016) (M)		87,000 (87,000)						U	

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21 Spaceborne Equip (COMSEC)	A	13,401	U
22 Global Positioning (Space)	A	52,959	U
23 Def Meteorological Sat Prog(Space)	A	77,815	U

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Department of the Air Force
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Total Obligational Authority
(Dollars in Thousands)

27 Jan 2016

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	FY 2017		FY 2017		FY 2017		S e c
		Ident Code	Base Quantity	OCO Quantity	Cost	Total Quantity	Cost	
12	AGM-88A Harm	A						U
13	Air Launch Cruise Missile (ALCM)	A	21,762			21,762		U
14	Small Diameter Bomb	A	15,349			15,349		U
	Total Modification of Inservice Missiles		123,180		26,620		149,800	
	Budget Activity 04: Spares and Repair Parts							
	Missile Spares and Repair Parts							
15	Initial Spares/Repair Parts	A	81,607			81,607		U
	Total Spares and Repair Parts		81,607			81,607		
	Budget Activity 05: Other Support							
	Space Programs							
16	Advanced EHF	A						U
17	Cancelled Account	A						U
18	Wideband Gapfiller Satellites(Space)	A						U
19	GPS III Space Segment Less: Advance Procurement (PY)	A						U U
20	GPS III Space Segment Advance Procurement (CY) C (FY 2015 for FY 2016) (M)							U

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21 Spaceborne Equip (COMSEC)	A	U
22 Global Positioning (Space)	A	U
23 Def Meteorological Sat Prog(Space)	A	U

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Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	FY 2015		FY 2016		FY 2016		FY 2016		S e c
		Ident Code	(Base & OCO) Quantity	Base Quantity	Enacted Cost	OCO Quantity	Enacted Cost	Total Quantity	Enacted Cost	
24	Evolved Expendable Launch Capability		687,735							U
25	Evolved Expendable Launch Veh(Space)	A	732,003							U
26	SBIR High (Space)	A	444,567							U
Special Programs										
30	Special Update Programs	A	60,179	276,562				276,562		U
999	Classified Programs		818,000	852,621				852,621		U
Total Other Support										
			3,533,560	1,129,183				1,129,183		
Total Missile Procurement, Air Force										
			4,952,204	2,910,212			289,142	3,199,354		

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 Total Obligational Authority
 (Dollars in Thousands)

27 Jan 2016

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	FY 2017			FY 2017			FY 2017			S e c -
		Ident Code	Base Quantity	Cost	OCO Quantity	Cost	Total Quantity	Cost			
----	-----	----	-----	----	-----	----	-----	-----	-----	-----	-
24	Evolved Expendable Launch Capability										U
25	Evolved Expendable Launch Veh(Space)	A									U
26	SBIR High (Space)	A									U
Special Programs											
30	Special Update Programs	A	46,125				46,125				U
999	Classified Programs		1,009,431				1,009,431				U
Total Other Support											
			1,055,556				1,055,556				
Total Missile Procurement, Air Force											
			2,426,621		339,545		2,766,166				

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3	02	02	LRASMO	LRASMO.....	Volume 1 - 29
4	02	02	M09HAI	Sidewinder (AIM-9X).....	Volume 1 - 39
5	02	02	MAMRA0	AMRAAM.....	Volume 1 - 71
6	02	02	PRDTA2	Predator Hellfire Missile.....	Volume 1 - 89
7	02	02	SDB000	Small Diameter Bomb.....	Volume 1 - 99
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Appropriation 3020F: Missile Procurement, Air Force

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12	03	01	M88AAG	AGM-88A Harm.....	Volume 1 - 141
13	03	01	MALCBG	Air Launch Cruise Missile (ALCM).....	Volume 1 - 143
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Appropriation 3020F: Missile Procurement, Air Force

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18	05	01	GAP000	Wideband Gapfiller Satellites(Space).....	Volume 1 - 189
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20	05	01	GPSIII	GPS III Space Segment, Advance Procurement.....	Volume 1 - 215
21	05	01	MC0MSE	Spaceborne Equip (Comsec).....	Volume 1 - 219
22	05	01	MGPS00	Global Positioning (Space).....	Volume 1 - 223
23	05	01	MS0554	Def Meteorological Sat Prog(Space).....	Volume 1 - 229
24	05	01	MSEELC	EVOLVED EXPENDABLE LAUNCH CAPABILITY.....	Volume 1 - 233
25	05	01	MSEELV	Evolved Expendable Launch Veh(Space).....	Volume 1 - 239
26	05	01	MSSBIR	SBIR High (Space).....	Volume 1 - 251
30	05	04	MSPPRG	Special Update Programs.....	Volume 1 - 283

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AGM-88A Harm	M88AAG	12	03	01.....	Volume 1 - 141
AMRAAM	MAMRA0	5	02	02.....	Volume 1 - 71
Advanced EHF	ADV555	16	05	01.....	Volume 1 - 167
Air Launch Cruise Missile (ALCM)	MALCBG	13	03	01.....	Volume 1 - 143
Def Meteorological Sat Prog(Space)	MS0554	23	05	01.....	Volume 1 - 229
EVOLVED EXPENDABLE LAUNCH CAPABILITY	MSEELC	24	05	01.....	Volume 1 - 233
Evolved Expendable Launch Veh(Space)	MSEELV	25	05	01.....	Volume 1 - 239
GPS III Space Segment	GPSIII	19	05	01.....	Volume 1 - 205
GPS III Space Segment, Advance Procurement	GPSIII	20	05	01.....	Volume 1 - 215
Global Positioning (Space)	MGPS00	22	05	01.....	Volume 1 - 223
ICBM FUZE MOD	M30FLH	9	03	01.....	Volume 1 - 115
Industr'l Preparedns/Pol Prevention	42	8	02	05.....	Volume 1 - 111
Joint Air-Surface Standoff Missile	JASSM0	2	02	02.....	Volume 1 - 9
LRASM0	LRASM0	3	02	02.....	Volume 1 - 29
MM III Modifications	M30MLG	10	03	01.....	Volume 1 - 121
Missile Replacement Eq-Ballistic	00099L	1	01	03.....	Volume 1 - 1

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Line Item Title	Line Item Number	Line #	BA	BSA	Page
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Replen Spares/Repair Parts	999	15	04	10.....	Volume 1 - 163
SBIR High (Space)	MSSBIR	26	05	01.....	Volume 1 - 251
Sidewinder (AIM-9X)	M09HAI	4	02	02.....	Volume 1 - 39
Small Diameter Bomb	SDB000	7	02	02.....	Volume 1 - 99
Small Diameter Bomb	SDB000	14	03	01.....	Volume 1 - 157
Spaceborne Equip (Comsec)	MC0MSE	21	05	01.....	Volume 1 - 219
Special Update Programs	MSPPRG	30	05	04.....	Volume 1 - 283
Wideband Gapfiller Satellites(Space)	GAP000	18	05	01.....	Volume 1 - 189

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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		
5747	LGM-30G Maintenance Trainer Modification	No
5921	MM LCC Block Upgrades	No
5925	MM III Auto Switching Unit (ASU)	No
5927	Airborne Launch Control System Replacement Increment I	No
5928	T-9 Launch Facility Trainer Conversion (T-9)	No
5929	LGM-30G Control Monitor Procedure Trainer Upgrade (CMPT)	No
5930	LGM-30G Fast Rising B-Plug Phase II (FRBP II)	No
5931	LGM-30G Cadmium Replacement Support Equipment (CaDRP)	No
5932	LGM-30G Remote Visual Assessment Phase II (RVA II)	No
5942	LGM-30G Launch Control Center Break-In-Kit (LCCB)	No
5943	ICBM Fuze Modernization	No
99999X	Low Cost Modifications	No
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
5915	ICBM Fuze Modernization	No
5910	MINUTEMAN MEECN MODIFICATION	No
5916	ICBM Cryptography Upgrade Increment II	No
5934	LGM-30G Flight Test Telemetry and Termination System (FT3)	No

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

Model:	AGM-65B Maverick		
Modification P-40a Aggregated Items Title:	AGM-65D Maverick		
Item Number		Item Title	Applies to Multiple Models
Uncategorized			
650002	AGM-65 B TO H UPGRADES		No
Model:	MAVERICK		
P-3a Individual Modifications			
Modification Number		Modification Title	Applies to Multiple Models
650003	Laser Maverick Mod		No
Model:	AGM-88		
Modification P-40a Aggregated Items Title:	AGM-88A Harm		
Item Number		Item Title	Applies to Multiple Models
Uncategorized			
_2984	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			
_0468	AGM-86B Low Cost Mods		No
860001	AGM-86B Service Life Extension Program 1		No

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

Model: AGM-86B		
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
2783	AGM-86B Service Life Extention Program 2	No
860004	AGM-86B CALCM/ALCM Test Instrumentation Kit	No
860006	AGM-86B Service Life Extension Program 3	No

Model: BRU-61A		
P-3a Individual Modifications		
Modification Number	Modification Title	Applies to Multiple Models
610001	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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
Exhibit P-40a										
LGM-30G Maintenance Trainer Modification	-	12.003	-	-	-	-	-	-	-	-
MM LCC Block Upgrades	-	-	-	-	-	-	16.004	28.187	-	-
MM III Auto Switching Unit (ASU)	-	-	-	-	-	-	-	11.455	11.965	12.218
Airborne Launch Control System Replacement Increment I	-	-	-	-	-	-	-	-	20.038	53.265
T-9 Launch Facility Trainer Conversion (T-9)	-	-	17.687	0.791	-	0.791	6.024	0.483	-	-
LGM-30G Control Monitor Procedure Trainer Upgrade (CMPT)	-	-	-	-	-	-	-	-	0.526	-
LGM-30G Fast Rising B-Plug Phase II (FRBP II)	-	-	-	-	-	-	0.340	5.731	10.800	6.440
LGM-30G Cadmium Replacement Support Equipment (CaDRP)	-	-	-	1.003	-	1.003	1.930	0.000	0.000	0.000
LGM-30G Remote Visual Assessment Phase II (RVA II)	-	-	-	-	-	-	16.363	12.056	10.730	-
LGM-30G Launch Control Center Break-In-Kit (LCCB)	-	-	-	1.024	-	1.024	0.274	-	-	-
ICBM Fuze Modernization	-	4.649	13.700	-	-	-	-	-	-	-
Low Cost Modifications	-	-	11.197	3.750	-	3.750	3.807	2.000	2.000	-
AGM-65 B TO H UPGRADES	0.276	0.276	-	0.000	-	0.000	0.000	0.000	0.000	-
HARM Control Section Modification	71.681	0.297	0.197	-	-	-	-	-	-	-
AGM-86B Low Cost Mods	1.313	0.101	0.130	0.100	-	0.100	0.100	0.100	0.100	0.100
AGM-86B Service Life Extension Program 1	6.782	1.455	0.015	0.015	-	0.015	0.007	-	-	-
Exhibit P-3a										
ICBM Fuze Modernization	0.000	0.000	0.000	17.095	0.000	17.095	6.321	9.841	12.094	34.145
MINUTEMAN MEECN MODIFICATION	73.057	11.770	0.000	9.621	0.000	9.621	0.000	0.000	0.000	0.000

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Exhibit P-1M, Procurement Programs - Modification Summary

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Air Force • President's Budget Submission FY 2017 • Procurement
Exhibit P-1M, Procurement Programs - Modification Summary
(Funding for Modifications)

Modification P-40a Item Title P-3a Modification Title	PYS	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	
ICBM Cryptography Upgrade Increment II	-	0.000	0.000	30.636	0.000	30.636	32.036	24.093	3.039	0.175	
LGM-30G Flight Test Telemetry and Termination System (FT3)	-	0.000	7.689	21.867	0.000	21.867	21.023	0.052	0.053	-	
Laser Maverick Mod	-	0.000	15.359	0.282	26.620	26.902	0.288	0.291	0.296	0.301	
AGM-86B Service Life Extention Program 2	9.261	11.260	10.572	11.080	0.000	11.080	11.345	11.033	4.727	0.143	
AGM-86B CALCM/ALCM Test Instrumentation Kit	87.452	3.267	10.059	5.039	0.000	5.039	4.662	8.790	14.410	18.984	
AGM-86B Service Life Extension Program 3	-	-	4.243	5.528	0.000	5.528	5.267	5.248	5.567	5.754	
GBU-39/B SDB I - BRU-61/A Dual Power Modifications	8.976	6.924	0.000	15.349	0.000	15.349	14.058	-	-	-	
Totals (Total Obligation Authority)											
Total Obligation Authority		258.798	52.002	90.848	123.180	26.620	149.800	139.849	119.360	96.345	131.525

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ACRONYMS

GENERAL ACRONYMS

A&AS	- Advisory & Assistance Services
ABIDES	- Automated Budget Interactive Data Environment System
ACAT	- Acquisition Category
ACTD	- Advanced Concept Technology Demonstration
AGM	- Air-to-Ground Missile
AIM	- Air Intercept Missile
AIS	- Avionics Intermediate Shop
ACMI	- Aircraft Combat Maneuvering Instrumentation
AMRAAM	- Advanced Medium-Range Air-to-Air Missile
APPN	- Appropriation
ATD	- Advanced Technology Development
BA	- Budget Activity
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

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FOT&E	- Follow-on Test and Evaluation
FOC	- Fully Operational Capability
FLTS	- Flight Line Test Set
FPIF	- Fixed Price Incentive Firm
FPIS	- Fixed Price Incentive Fee, Successive Targets
FY	- Fiscal Year
GANS	- Global Access Navigation & Safety
GATM	- Global Air Traffic Management
GFE	- Government Furnished Equipment
GFP	- Government Furnished Property
GPS	- Global Positioning System
GSE	- Ground Support Equipment
ICS	- Interim Contractor Support
IOC	- Initial Operating Capability
IPE	- Increased Performance Engine
JPALS	- Joint Precision Approach and Landing System
LANTIRN	- Low Altitude Navigation and Targeting Infra Red System for Night
MAIS	- Major Automated Information System Program
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
OFP	- 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
PMA	- Program Management Administration
PMC	- Procurement Method Code
PNO	- Acquisition Program Number (MDAP Codes)
PR	- Purchase Request
PRCP	- Program Resource Collection Process
PTT	- Part Task Trainer

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

BASE / ORGANIZATIONAL ACRONYMS

11 WING	- 11th Support Wing
ACC	- Air Combat Command
AETC	- Air Education & Training Command
AFCAO	- Air Force Computer Acquisition Office
AFCESA	- Air Force Civil Engineering Support Agency
AFCIC	- AF Communications & Information Center
AFCSC	- Air Force Cryptologic Service Center
AFESC	- Air Force Engineering Services Center
AFGWC	- Air Force Global Weather Central
AFIT	- Air Force Institute of Technology
AFLCMC	- Air Force Life Cycle Management Center
AFMC	- Air Force Materiel Command

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AFMETCAL	- Air Force Metrology and Calibration Office
AFMLO	- Air Force Medical Logistics Office
AFNEWS	- Air Force Information & News Service Center
AFOSI	- Air Force Office of Special Investigation
AFOTEC	- Air Force Operational Test & Evaluation Center
APC	- 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

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USAFE	- United States Air Force Europe
USCENTCOM	- United States Central Command
USEUCOM	- United States European Command
USMC	- United States Marine Corps
USSTRATCOM	- United States Strategic Command
WP AFB	- Wright-Patterson AFB, OH

CONTRACT METHOD / TYPE ACRONYMNS

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

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CONTRACTED BY ACRONYMNS

11 WING	- 11th Support Wing, Washington, DC
ACC	- Air Combat Command, Langley AFB, VA
AEDC	- Arnold Engineering Development Center, Arnold AFB, TN
AAC	- Air Armament Center, Eglin AFB, FL
AEDC	- Arnold Engineering Development Center, Arnold AFB, TN
AETC	- Air Education and Training Command, Randolph AFB, TX
AFCIC	- Air Force Communications and Information Center, Washington, DC
AFCESA	- Air Force Civil Engineering Support Agency, Tyndall AFB, FL
AFFTC	- Air Force Flight Test Center, Edwards AFB, CA
AFLCMC	- Air Force Life Cycle Management Center, Wright-Patterson AFB, OH
AFMC	- Air Force Materiel Command, Wright-Patterson AFB, OH
AFMETCAL	- Air Force Metrology and Calibration Office, Heath, Ohio
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

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IDENTIFICATION CODES

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 3: Missile Replacement Equipment - Ballistic					P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic								
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A							Other Related Program Elements: 0101213F, 0604851F			
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A											
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		-	80.005	93.715	70.247	-	70.247	68.901	57.529	60.049	53.647	-	484.093
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		-	80.005	93.715	70.247	-	70.247	68.901	57.529	60.049	53.647	-	484.093
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		-	80.005	93.715	70.247	-	70.247	68.901	57.529	60.049	53.647	-	484.093
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>													
Initial Spares (\$ in Millions)		-	-	-	2.158	-	2.158	-	-	-	-	-	2.158
Flyaway Unit Cost (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
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.													
The FY17 funding request was reduced by \$7.972 million to account for the availability of prior year execution balances.													
Funding for this exhibit is contained in PE 0101213F.													

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016																																																																																										
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<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>																																																																																																	
<p>Justification: FY17 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 III (LGM-30G), 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.</p> <p>Items requested in FY17 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.</p>																																																																																																	

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force														Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3						P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic								Aggregated Items Title: Ballistic Missile Items Less Than \$5 Million						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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																				
LGM-30G Transport Portable Air Conditioner	A		-	-	-	0.342	7	2.397	-	-	-	-	-	-	-	-	-	-	-	-
LGM-30G Higher Authority Communications Rapid Message Processing (HRSE) Support Equipment	A		-	-	-	0.231	10	2.310	-	-	-	-	-	-	-	-	-	-	-	-
Various	A		-	-	-	-	-	0.708	-	-	7.739	-	-	2.108	-	-	-	-	-	2.108
LGM-30G Code System Media (CSM)	A		-	-	-	0.059	41	2.400	-	-	-	-	-	-	-	-	-	-	-	-
LGM-30G Vandenberg AFB Bunker Winch Replacement	A		-	-	-	-	-	2.916	-	-	-	-	-	-	-	-	-	-	-	-
LGM-30G G&C Chiller	A		-	-	-	-	-	2.500	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Uncategorized			-	-	-	-	-	13.231	-	-	7.739	-	-	2.108	-	-	-	-	-	2.108
Total			-	-	-	-	-	13.231	-	-	7.739	-	-	2.108	-	-	-	-	-	2.108

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

Remarks:

Support Equipment Less Than \$5M procures low cost new, modified or replacement support equipment.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force														Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3					P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic									Aggregated Items Title: MM Power Panels (PPM)						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)			
Uncategorized																				
LGM-30G Minuteman III Power Panels (MMPP)	A		-	-	-	-	-	9.408	-	-	7.400	-	-	12.123	-	-	-	-	12.123	
Subtotal: Uncategorized			-	-	-	-	-	9.408	-	-	7.400	-	-	12.123	-	-	-	-	12.123	
Total			-	-	-	-	-	9.408	-	-	7.400	-	-	12.123	-	-	-	-	12.123	
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.																				
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, and 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 2017 Air Force														Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3					P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic									Aggregated Items Title: Payload Transporter Replacement (PTR)						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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																				
LGM-30G Payload Transporter Replacement (PTR)	A		-	-	-	-	-	-	-	-	4.000	12.152	2	24.304	-	-	-	12.152	2	24.304
<i>Subtotal: Uncategorized</i>			-	-	-	-	-	-	-	-	4.000	-	-	24.304	-	-	-	-	-	24.304
Total			-	-	-	-	-	-	-	-	4.000	-	-	24.304	-	-	-	-	-	24.304

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

Remarks:

Provides nuclear certified tractor and trailer to emplace, extract, and transport the reentry system, Propulsion System Rocket Engine, and guidance systems. Replaces current payload transporter to meet USSTRATCOM security requirements and addresses supportability issues. This support equipment is required to sustain Minuteman III operations through fielding of the Ground Based Strategic Deterrent (GBSD). PTR initial costs in FY 16-17 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 2017 Air Force														Date: February 2016					
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 (RFSE)					
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)	
Uncategorized																			
LGM-30G Reentry Field Support Equipment (RFSE)	A		-	-	-	-	-	51.306	6.445	7	45.116	-	-	0.663	-	-	-	-	0.663
<i>Subtotal: Uncategorized</i>			-	-	-	-	-	51.306	-	-	45.116	-	-	0.663	-	-	-	-	0.663
Total			-	-	-	-	-	51.306	-	-	45.116	-	-	0.663	-	-	-	-	0.663

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

Remarks:

The Reentry System Field Support Equipment (RFSE) program replaces the Reentry System Test Set (RSTS) and Safety Enhanced Reentry Vehicle (SERV) Field Test Set (SFTS). The RSTS was initially procured in the 1960's and is unsupportable and unreliable. The RSTS Mean Time Between Failures (MTBF) has degraded from 3000 hours to 24 hours.

RFSE will be used to test and functionally check out the MK12A and MK21 Reentry Systems (RSs) and the MK12A Reentry Vehicle's Forward Sections. The RFSE is required to sustain Minuteman III operations through fielding of Ground Based Strategic Deterrent (GBSD).

RFSE consists of Reentry System Test Consoles (RSTCs), Forward Section Test Sets (FSTSs), and supporting equipment (RSTC Alignment Console & FSTS calibration boxes). The RSTC checks-out all possible SERV RS configurations. The FSTS checks-out MK12A Forward Sections. MK21 Forward Sections will continue to be checked by the current SERV Arming and Fuzing Assembly Test Set (AFATS). RFSE allows simultaneous processing efforts to take place, thereby reducing overall processing time in the Weapon Storage Area.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force														Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3					P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic									Aggregated Items Title: RS/RV SE Rep Pgm (RSERP)						
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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																				
LGM-30G Reentry System/Reentry Vehicle Support Equipment Replacement	A		-	-	-	-	-	-	0.702	9	6.318	-	-	-	-	-	-	-	-	
<i>Subtotal: Uncategorized</i>			-	-	-	-	-	-	-	6.318	-	-	-	-	-	-	-	-	-	
Total			-	-	-	-	-	-	-	6.318	-	-	-	-	-	-	-	-	-	
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.																				
Remarks: Reentry Support Equipment Replacement Program (RSERP) replaces the 30 year old suite of test equipment necessary to checkout, screen, repair and refurbish M12A/Mk21 Arming Fuzing Assemblies. FY16 funding will be used to purchase nine Versatile Depot Automatic Test Stations (VDATS) to be provided as Government Furnished Equipment for development and then delivered in procurement as the core equipment suite forming the backbone of RSERP units.																				

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force															Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 01 / 3						P-1 Line Item Number / Title: 00099L / Missile Replacement Eq-Ballistic									Aggregated Items Title: Transporter Erector Replacement Program (TERP)					
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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																				
LGM-30G Transporter Erector Replacement Program (TERP)	A		-	-	-	6.060	1	6.060	5.786	4	23.142	4.436	7	31.049	-	-	-	4.436	7	31.049
Subtotal: Uncategorized			-	-	-	-	-	6.060	-	-	23.142	-	-	31.049	-	-	-	-	-	31.049
Total			-	-	-	-	-	6.060	-	-	23.142	-	-	31.049	-	-	-	-	-	31.049
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.																				
Remarks: The Transporter Erector Replacement Program (TERP) replaces the current transporter erector used to emplace, extract and transport MM III boosters to and from launch facilities. TERP will update existing drawings, specifications and technical orders to eliminate parts obsolescence and address the intended usage through fielding of Ground Based Strategic Deterrent (GBSD). The development contract, awarded 22 May 2013, included five pre-priced annual production options. Options 1 and 2 will be exercised in FY17 after successful completion of first article qualification. Option 3 will be awarded in FY18 for a total procurement of 19 units over FY17-18.																				

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical					P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile												
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A					Other Related Program Elements: N/A									
Line Item MDAP/MAIS Code: 555		Item MDAP/MAIS Code(s): N/A															
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total					
Procurement Quantity (<i>Units in Each</i>)	1,994	240	340	360	-	360	360	360	360	360	526	4,900					
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,922.235	329.158	425.578	431.645	-	431.645	440.489	447.991	455.388	463.462	1,018.172	5,934.118					
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,922.235	329.158	425.578	431.645	-	431.645	440.489	447.991	455.388	463.462	1,018.172	5,934.118					
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (<i>\$ in Millions</i>)	1,922.235	329.158	425.578	431.645	-	431.645	440.489	447.991	455.388	463.462	1,018.172	5,934.118					
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																	
Initial Spares (<i>\$ in Millions</i>)	-	-	0.806	0.367	-	0.367	0.423	0.429	0.437	0.444	0.872	3.778					
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.964	1.371	1.252	1.199	-	1.199	1.224	1.244	1.265	1.287	1.936	1.211					
Description:																	
The Joint Air-to-Surface Standoff Missile (JASSM) is an ACAT 1 program. This program provides a long range, conventional air-to-surface, autonomous, precision guided, standoff cruise missile compatible with fighter and bomber aircraft able to attack a variety of fixed or relocatable targets. 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. 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 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). However, funding and quantity information prior to FY15 is identified in P-1 Line Item 654515.																	
The JASSM program consists of two separable increments, JASSM baseline and 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 in P-40 reflect JASSM PE (0207325F) only, which is a combination of both JASSM baseline and JASSM-ER. JASSM baseline has been in Full Rate Production (FRP). JASSM-ER started Full Rate Production in FY15, and JASSM-ER achieved Initial Operational Capability (IOC) in December 2014 on the B-1B. JASSM-ER LRIP 1 and LRIP 2 have been delivered, LRIP 3, and LRIP 4 are on contract totaling 160 LRIP missiles. FY 2016 is the 14th production Lot for the JASSM program, awarded 1 December 2015. The program also plans to use some funds to evaluate Diminishing Manufacturing Sources (DMS) material shortages, obsolescence issues, and reliability improvement, including flight testing.																	
Funding for this exhibit is contained in PE 0207325F.																	

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical				P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile			
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			
Line Item MDAP/MAIS Code: 555		Item MDAP/MAIS Code(s): N/A					
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	JASSM0 JASSM Baseline	P-5a, P-21	A	1,834 / 1,644.843	100 / 139.481	100 / 73.582	- / -
P-5	Joint Air-Surface Standoff Missile	P-5a, P-21	A	160 / 277.392	140 / 189.677	240 / 351.996	360 / 431.645
P-40	Total Gross/Weapon System Cost			1,994 / 1,922.235	240 / 329.158	340 / 425.578	360 / 431.645
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	JASSM0 JASSM Baseline	P-5a, P-21	A	- / -	- / -	- / -	- / -
P-5	Joint Air-Surface Standoff Missile	P-5a, P-21	A	360 / 440.489	360 / 447.991	360 / 455.388	360 / 463.462
P-40	Total Gross/Weapon System Cost			360 / 440.489	360 / 447.991	360 / 455.388	360 / 463.462
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.							
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.							
Justification: In FY17 the Air Force will transition to JASSM-ER only production at the most efficient rate, procuring 360 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 2017 Air Force												Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2				P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile								Item Number / Title [DODIC]: - / JASSM0 JASSM Baseline					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total				
Procurement Quantity (<i>Units in Each</i>)		1,834	100	100	-	-	-	-	-	-	-	-	-	-	-	2,034	
Gross/Weapon System Cost (\$ in Millions)		1,644.843	139.481	73.582	-	-	-	-	-	-	-	-	-	-	-	1,857.906	
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)		1,644.843	139.481	73.582	-	-	-	-	-	-	-	-	-	-	-	1,857.906	
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)		1,644.843	139.481	73.582	-	-	-	-	-	-	-	-	-	-	-	1,857.906	
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																	
Initial Spares (\$ in Millions)		-	-	0.471	-	-	-	-	-	-	-	-	-	-	-	0.471	
Gross/Weapon System Unit Cost (\$ in Millions)		0.897	1.395	0.736	-	-	-	-	-	-	-	-	-	-	-	0.913	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																	
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Flyaway - Flyaway End Item Cost																	
Recurring Cost																	
JASSM Baseline All-UP-Round ^(†)	0.682	1,834	1,250.802	0.860	100	86.001	0.634	100	63.382	-	-	-	-	-	-	-	-
Engineering Change Orders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,250.802</i>	-	-	<i>86.001</i>	-	-	<i>63.382</i>	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	<i>1,250.802</i>	-	-	<i>86.001</i>	-	-	<i>63.382</i>	-	-	-	-	-	-	-	-
Support - Support End Item Cost																	
Program Management Administration (PMA)-A&S	-	-	7.119	-	-	2,429	-	-	0.747	-	-	-	-	-	-	-	-
Program Management Administration (PMA)-Gov't Cost	-	-	23.122	-	-	1,127	-	-	0.365	-	-	-	-	-	-	-	-
Test Support/Reliability/Obsolescence	-	-	236.966	-	-	44.715	-	-	6.372	-	-	-	-	-	-	-	-
Prime Contractor Support	-	-	97.245	-	-	5.209	-	-	2.716	-	-	-	-	-	-	-	-
JPO Tech Supt	-	-	29.589	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	<i>394.041</i>	-	-	<i>53.480</i>	-	-	<i>10.200</i>	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	0.897	1,834	1,644.843	1.395	100	139.481	0.736	100	73.582	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2					P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile								Item Number / Title [DODIC]: - / JASSM0 JASSM Baseline							
ID Code (A=Service Ready, B=Not Service Ready) : A													MDAP/MAIS Code:							
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.688	2,034	1,400.185		
Engineering Change Orders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<i>1,400.185</i>		
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<i>1,400.185</i>		
Support - Support End Item Cost																				
Program Management Administration (PMA)-A&S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.295		
Program Management Administration (PMA)-Gov't Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.614		
Test Support/Reliability/Obsolescence	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	288.053		
Prime Contractor Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105.170		
JPO Tech Supt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29.589		
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<i>457.721</i>		
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.913	2,034	1,857.906		

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
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	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
JASSM Baseline All-UP-Round ^(†)		2014	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Jun 2014	Feb 2016	120	0.843	Y		Jul 2012
JASSM Baseline All-UP-Round ^(†)		2015	Lockheed Martin / Troy, Alabama	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Oct 2015	Jan 2017	100	0.860	Y		Jul 2012
JASSM Baseline All-UP-Round ^(†)		2016	Lockheed Martin / Troy, Alabama	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Dec 2015	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 2017 Air Force																					Date: February 2016																																														
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 (Units in Each)						Fiscal Year 2014															Fiscal Year 2015																																														
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014										Calendar Year 2015										B A L A N C E																																									
JASSM Baseline All-UP-Round																																																																			
Prior Years Deliveries: 1714																																																																			
1	2014	AF	120	-	120											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120																														
1	2014	FMS (‡)	4	-	4											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4																														
1	2014	Total	124	-	124											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124																															
1	2015	AF	100	-	100																															100																															
1	2015	FMS (‡)	40	-	40																															40																															
1	2015	Total	140	-	140																															140																															
1	2016	AF	100	-	100																															100																															
1	2016	FMS (‡)	46	-	46																															46																															
1	2016	Total	146	-	146																															146																															
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																																						

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																		
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 (Units in Each)					Fiscal Year 2016															Fiscal Year 2017																		
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	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 A N C E								
JASSM Baseline All-UP-Round																																						
Prior Years Deliveries: 1714																																						
1	2014	AF	120	-	120	-	-	-	-	2	2	3	6	15	15	13	17	16	18	13																-		
1	2014	FMS (‡)	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-																
1	2014	Total	124	-	124	-	-	-	-	2	2	3	6	15	15	13	17	16	20	15	-																	
1	2015	AF	100	-	100	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
1	2015	FMS (‡)	40	-	40	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	6	7	7	6
1	2015	Total	140	-	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	17	17	17	16	17	17	16	17	17	16	10	10	10		
1	2016	AF	100	-	100	A -		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	
1	2016	FMS (‡)	46	-	46	A -		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46		
1	2016	Total	146	-	146	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	146		
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										

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Exhibit P-21, Production Schedule: PB 2017 Air Force																			Date: February 2016																			
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 (Units in Each)						Fiscal Year 2018														Fiscal Year 2019																		
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	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 A N C E								
JASSM Baseline All-UP-Round																																						
Prior Years Deliveries: 1714																																						
1	2014	AF	120	120	-																																	
1	2014	FMS (‡)	4	4	-																																	
1	2014	Total	124	124	-																																	
1	2015	AF	100	90	10	5	5																															
1	2015	FMS (‡)	40	40	-	-	-																															
1	2015	Total	140	130	10	5	5																															
1	2016	AF	100	-	100	-	-	10	10	10	10	10	10	10	10	10	10	5	5	5	5	5	-															
1	2016	FMS (‡)	46	-	46	-	-	-	-	-	-	-	-	7	6	5	3	3	2	6	7	7																
1	2016	Total	146	-	146	-	-	10	10	10	10	10	17	16	15	13	8	7	11	12	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									

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Exhibit P-21, Production Schedule: PB 2017 Air Force									Date: February 2016			
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			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - Troy, Alabama	175	360	360	-	3	24	27	-	-	-	-

(+) 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-5, Cost Analysis: PB 2017 Air Force												Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2				P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile								Item Number / Title [DODIC]: - / Joint Air-Surface Standoff Missile						
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:						
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total					
Procurement Quantity (Units in Each)		160	140	240	360	-	360	360	360	360	360	526	2,866					
Gross/Weapon System Cost (\$ in Millions)		277.392	189.677	351.996	431.645	-	431.645	440.489	447.991	455.388	463.462	1,018.172	4,076.212					
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P-1) (\$ in Millions)		277.392	189.677	351.996	431.645	-	431.645	440.489	447.991	455.388	463.462	1,018.172	4,076.212					
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)		277.392	189.677	351.996	431.645	-	431.645	440.489	447.991	455.388	463.462	1,018.172	4,076.212					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)		-	-	0.335	0.367	-	0.367	0.423	0.429	0.437	0.444	0.872	3.307					
Gross/Weapon System Unit Cost (\$ in Millions)		1.734	1.355	1.467	1.199	-	1.199	1.224	1.244	1.265	1.287	1.936	1.422					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 ^(†)	1.603	160	256.489	1.248	140	174.714	1.316	240	315.733	1.090	360	392.449	-	-	-	1.090	360	392.449
Engineering Change Orders	-	-	-	-	-	-	-	-	-	-	-	2.510	-	-	-	-	-	2.510
<i>Subtotal: Recurring Cost</i>	-	-	256.489	-	-	174.714	-	-	315.733	-	-	394.959	-	-	-	-	-	394.959
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	256.489	-	-	174.714	-	-	315.733	-	-	394.959	-	-	-	-	-	394.959
Support - Support End Item Cost																		
Program Management Administration (PMA)-A&S	-	-	0.000	-	-	-	-	-	1.941	-	-	2.742	-	-	-	-	-	2.742
Program Management Administration (PMA)-Gov't Cost	-	-	0.000	-	-	-	-	-	0.948	-	-	1.339	-	-	-	-	-	1.339
Test Support/Reliability/Obssolescence	-	-	18.057	-	-	10.448	-	-	26.311	-	-	22.433	-	-	-	-	-	22.433
Prime Contractor Support	-	-	2.846	-	-	4.515	-	-	7.063	-	-	10.172	-	-	-	-	-	10.172
<i>Subtotal: Support - Support End Item Cost</i>	-	-	20.903	-	-	14.963	-	-	36.263	-	-	36.686	-	-	-	-	-	36.686
Gross/Weapon System Cost	1.734	160	277.392	1.355	140	189.677	1.467	240	351.996	1.199	360	431.645	-	-	-	1.199	360	431.645

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2					P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile								Item Number / Title [DODIC]: - / Joint Air-Surface Standoff Missile							
ID Code (A=Service Ready, B=Not Service Ready) : A													MDAP/MAIS Code:							
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 ^(†)	1.102	360	396.613	1.121	360	403.566	1.139	360	410.153	1.160	360	417.591	1.239	526	651.656	1.193	2,866	3,418.964		
Engineering Change Orders	-	-	6.025	-	-	6.058	-	-	6.109	-	-	6.176	-	-	10.046	-	-	36.924		
<i>Subtotal: Recurring Cost</i>	-	-	402.638	-	-	409.624	-	-	416.262	-	-	423.767	-	-	661.702	-	-	3,455.888		
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	402.638	-	-	409.624	-	-	416.262	-	-	423.767	-	-	661.702	-	-	3,455.888		
Support - Support End Item Cost																				
Program Management Administration (PMA)-A&S	-	-	2.797	-	-	2.853	-	-	2.910	-	-	2.808	-	-	5.786	-	-	21.837		
Program Management Administration (PMA)-Gov't Cost	-	-	1.366	-	-	1.393	-	-	1.421	-	-	1.427	-	-	2.940	-	-	10.834		
Test Support/Reliability/Obssolescence	-	-	23.109	-	-	23.119	-	-	23.353	-	-	23.560	-	-	322.497	-	-	492.887		
Prime Contractor Support	-	-	10.579	-	-	11.002	-	-	11.442	-	-	11.900	-	-	25.247	-	-	94.766		
<i>Subtotal: Support - Support End Item Cost</i>	-	-	37.851	-	-	38.367	-	-	39.126	-	-	39.695	-	-	356.470	-	-	620.324		
Gross/Weapon System Cost	1.224	360	440.489	1.244	360	447.991	1.265	360	455.388	1.287	360	463.462	1.936	526	1,018.172	1.422	2,866	4,076.212		

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2			P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile					Item Number / Title [DODIC]: - / Joint Air-Surface Standoff Missile				
Cost Elements	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
JASSM Extended Range (ER) All-Up-Round ^(†)		2014	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Jun 2014	Feb 2016	60	1.497	Y		Jul 2012
JASSM Extended Range (ER) All-Up-Round ^(†)		2015	Lockheed Martin / Troy, Alabama	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Oct 2015	Jan 2017	140	1.248	Y		Jan 2014
JASSM Extended Range (ER) All-Up-Round ^(†)		2016	Lockheed Martin / Troy, Alabama	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Dec 2015	Dec 2017	240	1.316	Y		Jan 2014
JASSM Extended Range (ER) All-Up-Round ^(†)		2017	Lockheed Martin / Troy, Alabama	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Feb 2017	Dec 2018	360	1.090	Y		Aug 2016
JASSM Extended Range (ER) All-Up-Round ^(†)		2018	Lockheed Martin / Troy, Alabama	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Jan 2018	Dec 2019	360	1.102	Y		Jul 2017
JASSM Extended Range (ER) All-Up-Round ^(†)		2019	Lockheed Martin / Troy, Alabama	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Jan 2019	Dec 2020	360	1.121	Y		Jul 2018
JASSM Extended Range (ER) All-Up-Round ^(†)		2020	Lockheed Martin / Troy, Alabama	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Jan 2020	Dec 2021	360	1.139	Y		Jul 2019
JASSM Extended Range (ER) All-Up-Round ^(†)		2021	Lockheed Martin / Troy, Alabama	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Jan 2021	Dec 2022	360	1.160	Y		Jul 2020

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile										Item Number / Title [DODIC]: - / Joint Air-Surface Standoff Missile																			
Cost Elements (Units in Each)						Fiscal Year 2014															Fiscal Year 2015																		
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	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 A N C E									
JASSM Extended Range (ER) All-Up-Round																																							
Prior Years Deliveries: 100																																							
1	2014	AF	60	-	60																																		60
1	2015	AF	140	-	140																																		140
1	2016	AF	240	-	240																																		240
1	2017	AF	360	-	360																																		360
1	2018	AF	360	-	360																																		360
1	2019	AF	360	-	360																																		360
1	2020	AF	360	-	360																																		360
1	2021	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										

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile										Item Number / Title [DODIC]: - / Joint Air-Surface Standoff Missile																			
Cost Elements (Units in Each)					Fiscal Year 2016															Fiscal Year 2017																			
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	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 A N C E									
JASSM Extended Range (ER) All-Up-Round																																							
Prior Years Deliveries: 100																																							
1	2014	AF	60	-	60	-	-	-	-	8	6	6	6	6	6	5	5	5	5	2															-				
1	2015	AF	140	-	140	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	12	12	12	15	15	15	29									
1	2016	AF	240	-	240		A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240							
1	2017	AF	360	-	360																A -	-	-	-	-	-	-	-	-	-	360								
1	2018	AF	360	-	360																												360						
1	2019	AF	360	-	360																												360						
1	2020	AF	360	-	360																												360						
1	2021	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											

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016															
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile										Item Number / Title [DODIC]: - / Joint Air-Surface Standoff Missile																
Cost Elements (Units in Each)							Fiscal Year 2018												Fiscal Year 2019																	
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019											B A L A N C E							
O C T	N O V	D E C	J A N	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																																				
Prior Years Deliveries: 100																																				
1 2014 AF	60	60	-																								-									
1 2015 AF	140	111	29	15	14																								-							
1 2016 AF	240	-	240	-	-	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	-											
1 2017 AF	360	-	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	40	40	40	40	40	40	40	40	40	50						
1 2018 AF	360	-	360	A -		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	360					
1 2019 AF	360	-	360																								360									
1 2020 AF	360	-	360																								360									
1 2021 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						

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Exhibit P-21, Production Schedule: PB 2017 Air Force																			Date: February 2016																																																																																																																																																																																																																																																																																																																																																																										
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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile										Item Number / Title [DODIC]: - / Joint Air-Surface Standoff Missile																			
Cost Elements (Units in Each)						Fiscal Year 2022												Fiscal Year 2023																					
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	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 A N C E									
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Prior Years Deliveries: 100																																							
1	2014	AF	60	60	-																																		-
1	2015	AF	140	140	-																																		-
1	2016	AF	240	240	-																																		-
1	2017	AF	360	360	-																																		-
1	2018	AF	360	360	-																																		-
1	2019	AF	360	330	30	15	15																															-	
1	2020	AF	360	-	360	-	-	15	15	35	35	35	35	35	35	35	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	-			
1	2021	AF	360	-	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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										

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Exhibit P-21, Production Schedule: PB 2017 Air Force																			Date: February 2016													
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Cost Elements (Units in Each)							Fiscal Year 2024												Fiscal Year 2025													
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	FY	O C T	N O V	D E C	J A N	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 A N C E	
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1	2020	AF	360	360	-																											-
1	2021	AF	360	300	60	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	

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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - Troy, Alabama	175	360	360	-	-	-	-	-	5	22	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 2017 Air Force										Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical					P-1 Line Item Number / Title: LRASM0 / LRASM0												
ID Code (A=Service Ready, B=Not Service Ready): B			Program Elements for Code B Items: 0207325F						Other Related Program Elements: N/A								
Line Item MDAP/MAIS Code: 449		Item MDAP/MAIS Code(s): N/A															
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total					
Procurement Quantity (<i>Units in Each</i>)	-	-	-	20	-	20	15	15	28	28	-	106					
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	-	-	59.511	-	59.511	44.639	44.581	84.145	85.637	-	318.513					
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	-	-	59.511	-	59.511	44.639	44.581	84.145	85.637	-	318.513					
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	-	-	59.511	-	59.511	44.639	44.581	84.145	85.637	-	318.513					
<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>)	-	-	-	2.976	-	2.976	2.976	2.972	3.005	3.058	-	3.005					
Description:																	
The Long Range Anti-Ship Missile (LRASM) is a near-term solution for the Offensive Anti-Surface Warfare (OASuW) air-launch capability gap that will provide flexible, long-range, advanced, anti-surface capability against high-threat maritime targets. The Navy is the lead service for the LRASM program.																	
The missile is developed based on JASSM-ER (Joint Air-to-Surface Standoff Missile-Extended Range). Early operational capability for the LRASM is slated for 2018 on the U.S. Air Force B-1 Lancer and 2019 on the U.S. Navy F/A-18E/F Super Hornet.																	
The Department will transition the Defense Advanced Research Projects Agency (DARPA)/Office of Naval Research (ONR) LRASM demonstration design into a fielded weapon system which will support an increased offensive strike capability with an Early Operational Capability (EOC) in 2018 for Air Force platforms and 2019 on Navy platforms. FY17 is the first year of LRASM procurement and the current plans are for the Air Force to procure missiles over a five year period. The Navy is also procuring LRASMs for the F/A-18.																	

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016																																								
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical				P-1 Line Item Number / Title: LRASMO / LRASMO																																											
ID Code (A=Service Ready, B=Not Service Ready): B		Program Elements for Code B Items: 0207325F				Other Related Program Elements: N/A																																									
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P-5	LRASMO	P-5a, P-21	B	- / 0.000	- / -	- / -	20 / 59.511	- / -	20 / 59.511																																						
P-40	Total Gross/Weapon System Cost			- / 0.000	- / -	- / -	20 / 59.511	- / -	20 / 59.511																																						
<table border="1"> <thead> <tr> <th colspan="3">Exhibits Schedule</th> <th>FY 2018</th> <th>FY 2019</th> <th>FY 2020</th> <th>FY 2021</th> <th>To Complete</th> <th>Total</th> </tr> <tr> <th>Exhibit Type</th> <th>Title*</th> <th>Subexhibits</th> <th>ID CD</th> <th>Quantity / Total Cost (Each) / (\$ M)</th> </tr> </thead> <tbody> <tr> <td>P-5</td> <td>LRASMO</td> <td>P-5a, P-21</td> <td>B</td> <td>15 / 44.639</td> <td>15 / 44.581</td> <td>28 / 84.145</td> <td>28 / 85.637</td> <td>- / -</td> <td>106 / 318.513</td> </tr> <tr> <td>P-40</td> <td>Total Gross/Weapon System Cost</td> <td></td> <td></td> <td>15 / 44.639</td> <td>15 / 44.581</td> <td>28 / 84.145</td> <td>28 / 85.637</td> <td>- / -</td> <td>106 / 318.513</td> </tr> </tbody> </table>								Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	Exhibit Type	Title*	Subexhibits	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)	P-5	LRASMO	P-5a, P-21	B	15 / 44.639	15 / 44.581	28 / 84.145	28 / 85.637	- / -	106 / 318.513	P-40	Total Gross/Weapon System Cost			15 / 44.639	15 / 44.581	28 / 84.145	28 / 85.637	- / -	106 / 318.513		
Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total																																							
Exhibit Type	Title*	Subexhibits	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)																																							
P-5	LRASMO	P-5a, P-21	B	15 / 44.639	15 / 44.581	28 / 84.145	28 / 85.637	- / -	106 / 318.513																																						
P-40	Total Gross/Weapon System Cost			15 / 44.639	15 / 44.581	28 / 84.145	28 / 85.637	- / -	106 / 318.513																																						
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>																																															
<p>Justification: This program is a new start. The funds in FY17 will procure 20 LRASM missiles to achieve Early Operational Capability (EOC) on the B-1B.</p>																																															

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Exhibit P-5, Cost Analysis: PB 2017 Air Force											Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2						P-1 Line Item Number / Title: LRASMO / LRASMO						Item Number / Title [DODIC]: - / LRASMO						
ID Code (A=Service Ready, B=Not Service Ready) : B											MDAP/MAIS Code:							
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total					
Procurement Quantity (<i>Units in Each</i>)		-	-	-	20	-	20	15	15	28	28	-	-	106				
Gross/Weapon System Cost (\$ in Millions)		0.000	-	-	59.511	-	59.511	44.639	44.581	84.145	85.637	-	-	318.513				
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)		0.000	-	-	59.511	-	59.511	44.639	44.581	84.145	85.637	-	-	318.513				
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)		0.000	-	-	59.511	-	59.511	44.639	44.581	84.145	85.637	-	-	318.513				
(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)		-	-	-	2.976	-	2.976	2.976	2.972	3.005	3.058	-	-	3.005				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - LRASM Cost																		
Recurring Cost																		
All-Up-Round ^(†)	-	-	0.000	-	-	-	-	-	-	2.886	20	57.711	-	-	-	2.886	20	57.711
<i>Subtotal: Recurring Cost</i>	-	-	<i>0.000</i>	-	-	-	-	-	-	-	-	<i>57.711</i>	-	-	-	-	-	<i>57.711</i>
<i>Subtotal: Hardware - LRASM Cost</i>	-	-	<i>0.000</i>	-	-	-	-	-	-	-	-	<i>57.711</i>	-	-	-	-	-	<i>57.711</i>
Support - LRASMO Cost																		
Program Management Administration (PMA)- A&S	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
Program Management Administration (PMA)- Gov't Cost	-	-	-	-	-	-	-	-	-	-	-	0.800	-	-	-	-	-	0.800
<i>Subtotal: Support - LRASMO Cost</i>	-	-	-	-	-	-	-	-	-	-	-	<i>1.800</i>	-	-	-	-	-	<i>1.800</i>
Gross/Weapon System Cost	-	-	<i>0.000</i>	-	-	-	-	-	-	2.976	20	59.511	-	-	-	2.976	20	59.511
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 - LRASM Cost																		
Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2					P-1 Line Item Number / Title: LRASMO / LRASMO								Item Number / Title [DODIC]: - / LRASMO							
ID Code (A=Service Ready, B=Not Service Ready) : B													MDAP/MAIS Code:							
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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)		
All-Up-Round ^(†)	2.843	15	42.639	2.825	15	42.381	2.923	28	81.845	2.976	28	83.337	-	-	-	2.905	106	307.913		
<i>Subtotal: Recurring Cost</i>	-	-	42.639	-	-	42.381	-	-	81.845	-	-	83.337	-	-	-	-	-	307.913		
<i>Subtotal: Hardware - LRASMO Cost</i>	-	-	42.639	-	-	42.381	-	-	81.845	-	-	83.337	-	-	-	-	-	307.913		
Support - LRASMO Cost																				
Program Management Administration (PMA)- A&S	-	-	1.100	-	-	1.200	-	-	1.250	-	-	1.250	-	-	-	-	-	5.800		
Program Management Administration (PMA)- Gov't Cost	-	-	0.900	-	-	1.000	-	-	1.050	-	-	1.050	-	-	-	-	-	4.800		
<i>Subtotal: Support - LRASMO Cost</i>	-	-	2.000	-	-	2.200	-	-	2.300	-	-	2.300	-	-	-	-	-	10.600		
Gross/Weapon System Cost	2.976	15	44.639	2.972	15	44.581	3.005	28	84.145	3.058	28	85.637	-	-	-	3.005	106	318.513		

Remarks:

The FY 2021 amount of \$83.637M and 28 missiles is the result of a baseline extension error and it not currently planned for the FYDP.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2			P-1 Line Item Number / Title: LRASMO / LRASMO					Item Number / Title [DODIC]: - / LRASMO				
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 ^(†)		2017	Lockheed Martin / Troy, AL	SS / FPIF	Eglin AFB	Jan 2017	Jun 2018	20	2.886	Y	Oct 2015	Oct 2015
All-Up-Round ^(†)		2018	Lockheed Martin / Troy, AL	SS / FPIF	Eglin AFB	Jan 2018	Jun 2019	15	2.843	Y	Jul 2017	Jan 2017
All-Up-Round ^(†)		2019	Lockheed Martin / Troy, AL	SS / FPIF	Eglin AFB	Jan 2019	Jun 2020	15	2.825	Y	Jul 2018	Jan 2018
All-Up-Round ^(†)		2020	Lockheed Martin / Troy, AL	SS / FPIF	Eglin AFB	Jan 2020	Jun 2021	28	2.923	Y	Jul 2019	Jan 2019
All-Up-Round ^(†)		2021	Lockheed Martin / Troy, AL	SS / FPIF	Eglin AFB	Jan 2021	Jun 2022	28	2.976	Y	Jul 2020	Jan 2020

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																				B A L A N C E	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: LRASMO / LRASMO										Item Number / Title [DODIC]: - / LRASMO																						
Cost Elements (Units in Each)							Fiscal Year 2017												Fiscal Year 2018												B A L A N C E											
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	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													
All-Up-Round																																										
1	2017	AF	20	-	20				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	4	4	6					
1	2017	NAVY(‡)	10	-	10				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10					
1	2017	Total	30	-	30				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	4	4	16					
1	2018	AF	15	-	15																																				15	
1	2018	NAVY(‡)	25	-	25																																				25	
1	2018	Total	40	-	40																																				40	
1	2019	AF	15	-	15																																				15	
1	2019	NAVY(‡)	25	-	25																																				25	
1	2019	Total	40	-	40																																				40	
1	2020	AF	28	-	28																																				28	
1	2021	AF	28	-	28																																					28
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P												

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: LRASMO / LRASMO										Item Number / Title [DODIC]: - / LRASMO																		
Cost Elements (Units in Each)							Fiscal Year 2019												Fiscal Year 2020											B A L A N C E								
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	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									
All-Up-Round																																						
1	2017	AF	20	14	6	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
1	2017	NAVY(‡)	10	-	10	-	-	-	2	4	4																										-	
1	2017	Total	30	14	16	4	2	-	2	4	4																									-		
1	2018	AF	15	-	15	-	-	-	-	-	-	-	-	-	-	2	2	4	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-					
1	2018	NAVY(‡)	25	-	25	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	-					
1	2018	Total	40	-	40	-	-	-	-	-	-	-	-	-	4	4	6	6	5	2	2	2	2	2	2	2	2	2	2	2	3	-						
1	2019	AF	15	-	15		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	4	4	3			
1	2019	NAVY(‡)	25	-	25		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	17			
1	2019	Total	40	-	40		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	6	6	20				
1	2020	AF	28	-	28																																	28
1	2021	AF	28	-	28																																	28
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

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Exhibit P-21, Production Schedule: PB 2017 Air Force																			Date: February 2016																				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: LRASMO / LRASMO										Item Number / Title [DODIC]: - / LRASMO																			
Cost Elements (Units in Each)							Fiscal Year 2021												Fiscal Year 2022																				
O C R 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																				
All-Up-Round																								B A L A N C E															
1	2017	AF		20	20	-																								-									
1	2017	NAVY(‡)		10	10	-																								-									
1	2017	Total		30	30	-																								-									
1	2018	AF		15	15	-																								-									
1	2018	NAVY(‡)		25	25	-																								-									
1	2018	Total		40	40	-																								-									
1	2019	AF		15	12	3	3	-	-	-	-	-	-	-	-	-	-	-												-									
1	2019	NAVY(‡)		25	8	17	2	2	2	2	2	2	2	2	2	2	2	3												-									
1	2019	Total		40	20	20	5	2	2	2	2	2	2	2	2	2	3												-										
1	2020	AF		28	-	28	-	-	-	-	-	-	-	-	-	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	16								
1	2021	AF		28	-	28																								-									
							A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	4	4	16								
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																

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Exhibit P-21, Production Schedule: PB 2017 Air Force																			Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: LRASMO / LRASMO										Item Number / Title [DODIC]: - / LRASMO												
Cost Elements (Units in Each)							Fiscal Year 2023												Fiscal Year 2024													
O C R O #	M F R Y	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 A N C E		
All-Up-Round																																
1	2017	AF	20	20	-																											-
1	2017	NAVY(‡)	10	10	-																											-
1	2017	Total	30	30	-																											-
1	2018	AF	15	15	-																											-
1	2018	NAVY(‡)	25	25	-																											-
1	2018	Total	40	40	-																											-
1	2019	AF	15	15	-																											-
1	2019	NAVY(‡)	25	25	-																											-
1	2019	Total	40	40	-																											-
1	2020	AF	28	28	-																											-
1	2021	AF	28	12	16	4	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		

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Exhibit P-21, Production Schedule: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2			P-1 Line Item Number / Title: LRASMO / LRASMO					Item Number / Title [DODIC]: - / LRASMO				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - Troy, AL	12	48	48	-	4	17	21	-	-	-	-

(‡) 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 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical					P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)							
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A					Other Related Program Elements: 0207161F				
Line Item MDAP/MAIS Code: 442		Item MDAP/MAIS Code(s): N/A										
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	608	303	506	287	-	287	226	220	215	177	810	3,352
Gross/Weapon System Cost (<i>\$ in Millions</i>)	340.058	129.121	198.247	127.438	-	127.438	114.200	122.340	125.299	118.454	537.349	1,812.506
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	340.058	129.121	198.247	127.438	-	127.438	114.200	122.340	125.299	118.454	537.349	1,812.506
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	340.058	129.121	198.247	127.438	-	127.438	114.200	122.340	125.299	118.454	537.349	1,812.506
<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>)	6.304	1.717	0.604	7.684	-	7.684	5.708	4.294	4.324	1.881	9.115	41.631
Flyaway Unit Cost (<i>\$ in Millions</i>)	0.432	0.377	0.377	0.418	-	0.418	0.471	0.522	0.549	0.620	0.609	0.486
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.559	0.426	0.392	0.444	-	0.444	0.505	0.556	0.583	0.669	0.663	0.541
Description:												
The AIM-9X Block II Sidewinder (AIM-9X Blk II) short-range air-to-air missile is a long term evolution of the AIM-9 series of fielded missiles. The 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. 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. Anti-Tamper features have been incorporated to protect improvements inherent in this design. The AIM-9X Block II missile is critical to project power and win decisively in accordance with the Fiscal Year 2015 Defense Planning Guidance. The missile is essential to Pacific Command plans to counter threats employing advanced Digital Radio Frequency Memory (DRFM) electronic attack, cruise missiles, and Unmanned Aerial Vehicles.												
AIM-9X is a Post Milestone C, Acquisition Category IC (ACAT-IC) joint service program with Navy lead. In June 2011, the Milestone Decision Authority (MDA) established the AIM-9X Block II missile program which was approved for entry at Milestone C for Low Rate Initial Production (LRIP). The 2366 A/B certification and Acquisition Program Baseline for AIM-9X Block II was signed December 23, 2011, and the Block I program was terminated. The MDA approved the AIM-9X Block II missile for Full Rate Production (FRP), and the Acquisition Program Baseline to be re-established, in August 2015. This budget reflects the resulting Service Cost Position pricing model.												
Beginning in FY16, the program will procure a small quantity of a unique variant of the missile labeled AIM-9X Block II Plus. This variant is very similar to the AIM-9X Block II All Up Round, but will enhance aircraft platform survivability. In FY17, the missile will incorporate the obsolescence redesign of the control actuator system battery. Beginning in FY19, the missile will incorporate tech refresh of critical obsolete components required to ensure producability. Specific hardware updates will include the inertial measurement unit, and the dome and guidance unit processor. The guidance unit processor is the critical component to ensure continued production of the missile system and avoid production line gaps.												
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 battery, and the missile guidance unit.												

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016																																								
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical				P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)																																											
ID Code (A=Service Ready, B=Not Service Ready): A		Program Elements for Code B Items: N/A					Other Related Program Elements: 0207161F																																								
Line Item MDAP/MAIS Code: 442		Item MDAP/MAIS Code(s): N/A																																													
<table border="1"> <thead> <tr> <th colspan="3">Exhibits Schedule</th> <th colspan="2">Prior Years</th> <th>FY 2015</th> <th>FY 2016</th> <th>FY 2017 Base</th> <th>FY 2017 OCO</th> <th>FY 2017 Total</th> </tr> <tr> <th>Exhibit Type</th> <th>Title*</th> <th>Subexhibits</th> <th>ID CD</th> <th>Quantity / Total Cost (Each) / (\$ M)</th> </tr> </thead> <tbody> <tr> <td>P-5</td> <td>Sidewinder (AIM-9X)</td> <td>P-5a, P-21</td> <td>A</td> <td>608 / 340.058</td> <td>303 / 129.121</td> <td>506 / 198.247</td> <td>287 / 127.438</td> <td>- / -</td> <td>287 / 127.438</td> </tr> <tr> <td>P-40</td> <td>Total Gross/Weapon System Cost</td> <td></td> <td></td> <td>608 / 340.058</td> <td>303 / 129.121</td> <td>506 / 198.247</td> <td>287 / 127.438</td> <td>- / -</td> <td>287 / 127.438</td> </tr> </tbody> </table>								Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Exhibit Type	Title*	Subexhibits	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)	P-5	Sidewinder (AIM-9X)	P-5a, P-21	A	608 / 340.058	303 / 129.121	506 / 198.247	287 / 127.438	- / -	287 / 127.438	P-40	Total Gross/Weapon System Cost			608 / 340.058	303 / 129.121	506 / 198.247	287 / 127.438	- / -	287 / 127.438
Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total																																						
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Exhibits Schedule			FY 2018		FY 2019	FY 2020	FY 2021	To Complete	Total																																						
Exhibit Type	Title*	Subexhibits	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)																																						
P-5	Sidewinder (AIM-9X)	P-5a, P-21	A	226 / 114.200	220 / 122.340	215 / 125.299	177 / 118.454	810 / 537.349	3,352 / 1,812.506																																						
P-40	Total Gross/Weapon System Cost			226 / 114.200	220 / 122.340	215 / 125.299	177 / 118.454	810 / 537.349	3,352 / 1,812.506																																						
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>																																															
<p>Justification: FY17 provides funding to procure a quantity of 287 Full Rate Production (FRP) AIM-9X Block II missiles.</p>																																															

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Exhibit P-5, Cost Analysis: PB 2017 Air Force											Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2				P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)								Item Number / Title [DODIC]: - / Sidewinder (AIM-9X)						
ID Code (A=Service Ready, B=Not Service Ready) : A											MDAP/MAIS Code:							
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total					
Procurement Quantity (Units in Each)		608	303	506	287	-	287	226	220	215	177	810	3,352					
Gross/Weapon System Cost (\$ in Millions)		340.058	129.121	198.247	127.438	-	127.438	114.200	122.340	125.299	118.454	537.349	1,812.506					
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P-1) (\$ in Millions)		340.058	129.121	198.247	127.438	-	127.438	114.200	122.340	125.299	118.454	537.349	1,812.506					
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)		340.058	129.121	198.247	127.438	-	127.438	114.200	122.340	125.299	118.454	537.349	1,812.506					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)		6.304	1.717	0.604	7.684	-	7.684	5.708	4.294	4.324	1.881	9.115	41.631					
Gross/Weapon System Unit Cost (\$ in Millions)		0.559	0.426	0.392	0.444	-	0.444	0.505	0.556	0.583	0.669	0.663	0.541					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 ^(t)	0.440	404	177.789	0.400	243	97.178	0.349	354	123.712	0.429	70	30.040	-	-	-	0.429	70	30.040
Captive Air Training Missile (CATM) - Block II ^(t)	0.243	204	49.616	0.210	60	12.574	0.189	77	14.564	0.224	77	17.255	-	-	-	0.224	77	17.255
Engineering Change Orders - Block II	-	-	2.038	-	-	-	-	-	4.448	-	-	2.859	-	-	-	-	-	2.859
Diminishing Manufacturing Sources	-	-	0.493	-	-	1.953	-	-	12.852	-	-	3.071	-	-	-	-	-	3.071
Government Cost (GFE & Testing) - Block II	-	-	0.094	-	-	-	-	-	0.184	-	-	0.092	-	-	-	-	-	0.092
Special Test/Special Tooling Equipment - Block II	-	-	6.150	-	-	1.489	-	-	0.314	-	-	0.320	-	-	-	-	-	0.320
Missile Containers - Block II ^(t)	0.014	171	2.373	0.012	85	1.018	0.013	144	1.924	0.016	82	1.284	-	-	-	0.016	82	1.284
Non-Recurring Engineering - Block II	-	-	24.346	-	-	-	-	-	3.411	-	-	-	-	-	-	-	-	-
All Up Round - Block II Plus ^(t)	-	-	-	-	-	-	0.392	75	29.427	0.464	140	64.994	-	-	-	0.464	140	64.994

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2				P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)									Item Number / Title [DODIC]: - / Sidewinder (AIM-9X)													
ID Code (A=Service Ready, B=Not Service Ready) : A													MDAP/MAIS Code:													
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																										
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total										
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)								
<i>Subtotal: Recurring Cost</i>	-	-	262.899	-	-	114.212	-	-	190.836	-	-	119.915	-	-	-	-	-	119.915								
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	262.899	-	-	114.212	-	-	190.836	-	-	119.915	-	-	-	-	-	119.915								
Support - Support End Item Cost																										
Production Tech Support	-	-	15.781	-	-	11.089	-	-	1.955	-	-	1.992	-	-	-	-	-	1.992								
Peculiar Support Equipment - Block II	-	-	0.061	-	-	-	-	-	0.032	-	-	0.033	-	-	-	-	-	0.033								
Test Equipment - Block II	-	-	10.304	-	-	2.265	-	-	0.276	-	-	0.188	-	-	-	-	-	0.188								
PMA Contractor Services - Block II	-	-	6.872	-	-	1.473	-	-	1.219	-	-	1.257	-	-	-	-	-	1.257								
PMA Other Government Costs - Block II	-	-	44.141	-	-	0.082	-	-	3.901	-	-	4.025	-	-	-	-	-	4.025								
Training Support - Block II	-	-	0.000	-	-	-	-	-	0.028	-	-	0.028	-	-	-	-	-	0.028								
<i>Subtotal: Support - Support End Item Cost</i>	-	-	77.159	-	-	14.909	-	-	7.411	-	-	7.523	-	-	-	-	-	7.523								
Gross/Weapon System Cost	0.559	608	340.058	0.426	303	129.121	0.392	506	198.247	0.444	287	127.438	-	-	-	0.444	287	127.438								
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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(t)	0.490	51	24.999	0.475	140	66.488	0.499	135	67.323	0.542	97	52.564	0.569	810	461.111	0.478	2,304	1,101.204								
Captive Air Training Missile (CATM) - Block II(t)	0.262	75	19.669	-	-	-	-	-	-	-	-	-	-	-	0.231	493	113.678									
Engineering Change Orders - Block II	-	-	2.386	-	-	2.751	-	-	2.771	-	-	2.505	-	-	14.398	-	-	34.156								
Diminishing Manufacturing Sources	-	-	4.006	-	-	3.408	-	-	4.017	-	-	5.812	-	-	8.911	-	-	44.523								
Government Cost (GFE & Testing) - Block II	-	-	0.067	-	-	0.100	-	-	0.100	-	-	-	-	-	-	-	-	0.637								
Special Test/Special Tooling Equipment - Block II	-	-	2.009	-	-	0.332	-	-	0.339	-	-	2.132	-	-	3.732	-	-	16.817								

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Exhibit P-5, Cost Analysis: PB 2017 Air Force														Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2							P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)							Item Number / Title [DODIC]: - / Sidewinder (AIM-9X)						
ID Code (A=Service Ready, B=Not Service Ready) : A														MDAP/MAIS Code:						
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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)		
Missile Containers - Block II ^(†)	0.018	65	1.139	0.018	62	1.121	0.019	60	1.126	0.020	49	0.977	0.021	225	4.741	0.017	943	15.703		
Non-Recurring Engineering - Block II	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27.757	
All Up Round - Block II Plus ^(†)	0.522	100	52.226	0.507	80	40.590	0.529	80	42.339	0.573	80	45.838	-	-	-	0.496	555	275.414		
<i>Subtotal: Recurring Cost</i>	-	-	106.501	-	-	114.790	-	-	118.015	-	-	109.828	-	-	-	492.893	-	-	1,629.889	
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	106.501	-	-	114.790	-	-	118.015	-	-	109.828	-	-	-	492.893	-	-	1,629.889	
Support - Support End Item Cost																				
Production Tech Support	-	-	2.032	-	-	2.073	-	-	2.114	-	-	2.156	-	-	-	11.446	-	-	50.638	
Peculiar Support Equipment - Block II	-	-	0.033	-	-	0.034	-	-	0.035	-	-	0.035	-	-	-	0.188	-	-	0.451	
Test Equipment - Block II	-	-	0.287	-	-	0.195	-	-	-	-	-	-	-	-	-	-	-	-	13.515	
PMA Contractor Services - Block II	-	-	1.266	-	-	1.242	-	-	1.215	-	-	1.524	-	-	-	7.773	-	-	23.841	
PMA Other Government Costs - Block II	-	-	4.052	-	-	3.977	-	-	3.890	-	-	4.880	-	-	-	24.886	-	-	93.834	
Training Support - Block II	-	-	0.029	-	-	0.029	-	-	0.030	-	-	0.031	-	-	-	0.163	-	-	0.338	
<i>Subtotal: Support - Support End Item Cost</i>	-	-	7.699	-	-	7.550	-	-	7.284	-	-	8.626	-	-	-	44.456	-	-	182.617	
Gross/Weapon System Cost	0.505	226	114.200	0.556	220	122.340	0.583	215	125.299	0.669	177	118.454	0.663	810	537.349	0.541	3,352	1,812.506		
Remarks: The program is in production and any changes that will occur, prior to or after fielding, are software changes. Hardware specs are available and being used to manufacture the missile. Baseline software specs are known.																				
The FY16 Contract is scheduled for award in June 2016 and procures the Full Rate Production (FRP) missile.																				
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.																				
(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
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	C / FPIF	NAVAIR	Aug 2013	Dec 2014	92	0.418	Y		Jan 2012
All Up Round - Block II ^(†)		2014	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Jun 2014	Mar 2016	170	0.381	Y		Jan 2013
All Up Round - Block II ^(†)		2015	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Aug 2015	Jan 2017	243	0.400	Y		Jan 2014
All Up Round - Block II ^(†)		2016	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2016	Sep 2017	354	0.349	Y		Jan 2015
All Up Round - Block II ^(†)		2017	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2017	Sep 2018	70	0.429	Y		Jan 2016
All Up Round - Block II ^(†)		2018	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2018	Sep 2019	51	0.490	Y		Jan 2017
All Up Round - Block II ^(†)		2019	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2019	Sep 2020	140	0.475	Y		Jan 2018
All Up Round - Block II ^(†)		2020	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2020	Sep 2021	135	0.499	Y		Jan 2019
All Up Round - Block II ^(†)		2021	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2021	Sep 2022	97	0.542	Y		Jan 2020
Captive Air Training Missile (CATM) - Block II ^(†)		2013	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Aug 2013	Sep 2014	58	0.208	Y		Jan 2012
Captive Air Training Missile (CATM) - Block II ^(†)		2014	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Jun 2014	Dec 2015	55	0.199	Y		Jan 2013
Captive Air Training Missile (CATM) - Block II ^(†)		2015	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Aug 2015	Sep 2016	60	0.210	Y		Jan 2014
Captive Air Training Missile (CATM) - Block II ^(†)		2016	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2016	Sep 2017	77	0.189	Y		Jan 2015
Captive Air Training Missile (CATM) - Block II ^(†)		2017	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2017	Sep 2018	77	0.224	Y		Jan 2016
Captive Air Training Missile (CATM) - Block II ^(†)		2018	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2018	Sep 2019	75	0.262	Y		Jan 2017
Missile Containers - Block II ^(†)		2013	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Aug 2013	Sep 2014	42	0.013	Y		Jan 2012
Missile Containers - Block II ^(†)		2014	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Jun 2014	Sep 2015	63	0.012	Y		Jan 2013
Missile Containers - Block II ^(†)		2015	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Aug 2015	Sep 2016	85	0.012	Y		Jan 2014
Missile Containers - Block II ^(†)		2016	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2016	Sep 2017	144	0.013	Y		Jan 2015

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
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
Missile Containers - Block II ^(†)		2017	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2017	Sep 2018	82	0.016	Y		Jan 2016
Missile Containers - Block II ^(†)		2018	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2018	Sep 2019	65	0.018	Y		Jan 2017
Missile Containers - Block II ^(†)		2019	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2019	Sep 2020	62	0.018	Y		Jan 2018
Missile Containers - Block II ^(†)		2020	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2020	Sep 2021	60	0.019	Y		Jan 2019
Missile Containers - Block II ^(†)		2021	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2021	Sep 2022	49	0.020	Y		Jan 2020
All Up Round - Block II Plus ^(†)		2016	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2016	Sep 2017	75	0.392	Y		Jan 2015
All Up Round - Block II Plus ^(†)		2017	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2017	Sep 2018	140	0.464	Y		Jan 2016
All Up Round - Block II Plus ^(†)		2018	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2018	Sep 2019	100	0.522	Y		Jan 2017
All Up Round - Block II Plus ^(†)		2019	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2019	Sep 2020	80	0.507	Y		Jan 2018
All Up Round - Block II Plus ^(†)		2020	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2020	Sep 2021	80	0.529	Y		Jan 2019
All Up Round - Block II Plus ^(†)		2021	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2021	Sep 2022	80	0.573	Y		Jan 2020

(†) indicates the presence of a P-21

Remarks:

FY16 is forecasted to be the second Lot of Full Rate Production Block II missiles

FY17 is forecasted to be the third 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 2017 Air Force

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2013												Fiscal Year 2014																
O C R O #	M F R Y	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					
All Up Round - Block II																																			
Prior Years Deliveries: 142																																			
1	2013	AF	92	-	92																											92			
1	2013	NAVY (‡)	92	-	92																											92			
1	2013	FMS (‡)	170	-	170																											170			
1	2013	Total	354	-	354																										354				
1	2014	AF	170	-	170																											170			
1	2014	NAVY (‡)	161	-	161																											161			
1	2014	FMS (‡)	195	-	195																											195			
1	2014	Total	526	-	526																										526				
1	2015	AF	243	-	243																											243			
1	2015	NAVY (‡)	113	-	113																											113			
1	2015	FMS (‡)	102	-	102																											102			
1	2015	Total	458	-	458																										458				
1	2016	AF	354	-	354																											354			
1	2017	AF	70	-	70																											70			
1	2017	NAVY (‡)	37	-	37																											37			
1	2017	Total	107	-	107																										107				
1	2018	AF	51	-	51																											51			
1	2018	NAVY (‡)	84	-	84																											84			
1	2018	Total	135	-	135																										135				
1	2019	AF	140	-	140																											140			
1	2019	NAVY (‡)	86	-	86																											86			
1	2019	Total	226	-	226																										226				
1	2020	AF	135	-	135																											135			
1	2020	NAVY (‡)	87	-	87																											87			
1	2020	Total	222	-	222																										222				
1	2021	AF	97	-	97																											97			
1	2021	NAVY (‡)	90	-	90																											90			
1	2021	Total	187	-	187																										187				
Captive Air Training Missile (CATM) - Block II																																			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2013												Fiscal Year 2014												B A L A N C E	
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	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			
						Calendar Year 2013												Calendar Year 2014														
Prior Years Deliveries: 91																																
2	2013	AF ⁽¹⁾	58	-	58																									12	46	
2	2013	NAVY ^(‡) ⁽²⁾	58	-	58																									12	46	
2	2013	FMS ^(‡) ⁽³⁾	62	-	62																									4	58	
2	2013	Total	178	-	178																								28	150		
2	2014	AF	55	-	55																										55	
2	2014	NAVY ^(‡)	47	-	47																										47	
2	2014	FMS ^(‡)	60	-	60																										60	
2	2014	Total	162	-	162																									162		
2	2015	AF	60	-	60																										60	
2	2015	NAVY ^(‡)	54	-	54																										54	
2	2015	FMS ^(‡)	13	-	13																										13	
2	2015	Total	127	-	127																									127		
2	2016	AF	77	-	77																										77	
2	2016	NAVY ^(‡)	50	-	50																										50	
2	2016	FMS ^(‡)	20	-	20																										20	
2	2016	Total	147	-	147																									147		
2	2017	AF	77	-	77																										77	
2	2017	NAVY ^(‡)	37	-	37																										37	
2	2017	FMS ^(‡)	48	-	48																										48	
2	2017	Total	162	-	162																									162		
2	2018	AF	75	-	75																										75	
2	2018	NAVY ^(‡)	36	-	36																										36	
2	2018	Total	111	-	111																									111		
Missile Containers - Block II																																
Prior Years Deliveries: 66																																
3	2013	AF ⁽⁴⁾	42	-	42																										4	38
3	2013	NAVY ^(‡) ⁽⁵⁾	42	-	42																										4	38
3	2013	FMS ^(‡) ⁽⁶⁾	65	-	65																										2	63
3	2013	Total	149	-	149																									10	139	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2013												Fiscal Year 2014													
O 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 A N C E	
3	2014	AF		63	-	63																									63	
3	2014	NAVY (‡)		59	-	59																									59	
3	2014	FMS (‡)		66	-	66																									66	
3	2014	Total		188	-	188																									188	
3	2015	AF		85	-	85																									85	
3	2015	NAVY (‡)		47	-	47																									47	
3	2015	FMS (‡)		35	-	35																									35	
3	2015	Total		167	-	167																									167	
3	2016	AF		144	-	144																									144	
3	2016	NAVY (‡)		63	-	63																									63	
3	2016	FMS (‡)		5	-	5																									5	
3	2016	Total		212	-	212																									212	
3	2017	AF		82	-	82																									82	
3	2017	NAVY (‡)		44	-	44																									44	
3	2017	FMS (‡)		15	-	15																									15	
3	2017	Total		141	-	141																									141	
3	2018	AF		65	-	65																									65	
3	2018	NAVY (‡)		43	-	43																									43	
3	2018	Total		108	-	108																									108	
3	2019	AF		62	-	62																									62	
3	2019	NAVY (‡)		44	-	44																									44	
3	2019	Total		106	-	106																									106	
3	2020	AF		60	-	60																									60	
3	2020	NAVY (‡)		43	-	43																									43	
3	2020	Total		103	-	103																									103	
3	2021	AF		49	-	49																									49	
3	2021	NAVY (‡)		43	-	43																									43	
3	2021	Total		92	-	92																									92	
All Up Round - Block II Plus																																
4	2016	AF		75	-	75																										75
4	2017	AF		140	-	140																										140
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)										Item Number / Title [DODIC]: - / Sidewinder (AIM-9X)																			
Cost Elements (Units in Each)					Fiscal Year 2013															Fiscal Year 2014																			
O C R #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013										Calendar Year 2014										B A L A N C E													
						O C T	N O V	D E C	J A N	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										
4	2017	NAVY (#)	78	-	78																																78		
4	2017	Total	218	-	218																																218		
4	2018	AF	100	-	100																																	100	
4	2018	NAVY (#)	30	-	30																																		30
4	2018	Total	130	-	130																																		130
4	2019	AF	80	-	80																																		80
4	2019	NAVY (#)	30	-	30																																		30
4	2019	Total	110	-	110																																		110
4	2020	AF	80	-	80																																		80
4	2020	NAVY (#)	30	-	30																																		30
4	2020	Total	110	-	110																																		110
4	2021	AF	80	-	80																																		80
4	2021	NAVY (#)	30	-	30																																		30
4	2021	Total	110	-	110																																		110
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P											

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2015												Fiscal Year 2016												
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	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 A N C E	
						O C T	N O V	D E C	J A N	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	-	-	9	9	9	9	9	12	12	11	12											-				
1	2013	NAVY (‡)	92	-	92	-	-	9	9	9	9	9	12	12	11	12											-				
1	2013	FMS (‡)	170	-	170	-	-	-	20	20	24	24	16	20	16	30											-				
1	2013	Total	354	-	354	-	-	18	38	38	42	42	40	44	38	54											-				
1	2014	AF	170	-	170	-	-	-	-	-	-	-	-	-	-	-											-				
1	2014	NAVY (‡)	161	-	161	-	-	-	-	-	-	-	-	-	-	-	1	-	-	42	77	41	-	-	-	-	-				
1	2014	FMS (‡)	195	-	195	-	-	-	-	-	-	-	-	-	-	-	19	16	16	16	16	16	16	16	16	16	-				
1	2014	Total	526	-	526	-	-	-	-	-	-	-	-	-	-	-	20	16	16	16	58	93	89	82	76	16	28	-			
1	2015	AF	243	-	243						A	-	-	-	-	-											243				
1	2015	NAVY (‡)	113	-	113						A	-	-	-	-	-											1	112			
1	2015	FMS (‡)	102	-	102						A	-	-	-	-	-											9	93			
1	2015	Total	458	-	458						-	-	-	-	-	-											10	448			
1	2016	AF	354	-	354												A	-	-	-	-	-	-	-	-	-	-	354			
1	2017	AF	70	-	70																							70			
1	2017	NAVY (‡)	37	-	37																								37		
1	2017	Total	107	-	107																								107		
1	2018	AF	51	-	51																								51		
1	2018	NAVY (‡)	84	-	84																								84		
1	2018	Total	135	-	135																								135		
1	2019	AF	140	-	140																								140		
1	2019	NAVY (‡)	86	-	86																								86		
1	2019	Total	226	-	226																								226		
1	2020	AF	135	-	135																								135		
1	2020	NAVY (‡)	87	-	87																								87		
1	2020	Total	222	-	222																								222		
1	2021	AF	97	-	97																								97		
1	2021	NAVY (‡)	90	-	90																								90		
1	2021	Total	187	-	187																								187		
Captive Air Training Missile (CATM) - Block II																															
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)								Fiscal Year 2015												Fiscal Year 2016												B A L A N C E
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												B A L A N C E		
						O C T	N O V	D E C	J A N	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: 91																																
2	2013	AF ⁽¹⁾	58	12	46	12	16	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2	2013	NAVY ^(‡) ⁽²⁾	58	12	46	12	16	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2	2013	FMS ^(‡) ⁽³⁾	62	4	58	4	4	4	4	8	4	4	8	4	4	4	10														-	
2	2013	Total	178	28	150	28	36	40	4	8	4	4	8	4	4	4	10															
2	2014	AF	55	-	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2	2014	NAVY ^(‡)	47	-	47	-	-	-	-	-	-	-	-	-	-	-	-	1	-	43	3	-	-	-	-	-	-	-	-			
2	2014	FMS ^(‡)	60	-	60	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	5	5	5	5	-			
2	2014	Total	162	-	162	-	-	-	-	-	-	-	-	-	-	-	-	6	5	48	44	24	5	-								
2	2015	AF	60	-	60												A	-	-	-	-	-	-	-	-	-	-	-	-	12	48	
2	2015	NAVY ^(‡)	54	-	54												A	-	-	-	-	-	-	-	-	-	-	-	-	54	-	
2	2015	FMS ^(‡)	13	-	13												A	-	-	-	-	-	-	-	-	-	-	-	-	2	11	
2	2015	Total	127	-	127												-	-	-	-	-	-	-	-	-	-	-	-	68	59		
2	2016	AF	77	-	77												A	-	-	-	-	-	-	-	-	-	-	-	-	-	77	-
2	2016	NAVY ^(‡)	50	-	50												A	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-
2	2016	FMS ^(‡)	20	-	20												A	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-
2	2016	Total	147	-	147												-	-	-	-	-	-	-	-	-	-	-	-	-	147	-	
2	2017	AF	77	-	77												A	-	-	-	-	-	-	-	-	-	-	-	-	-	77	-
2	2017	NAVY ^(‡)	37	-	37												A	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-
2	2017	FMS ^(‡)	48	-	48												A	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-
2	2017	Total	162	-	162												-	-	-	-	-	-	-	-	-	-	-	-	-	162	-	
2	2018	AF	75	-	75												A	-	-	-	-	-	-	-	-	-	-	-	-	-	75	-
2	2018	NAVY ^(‡)	36	-	36												A	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-
2	2018	Total	111	-	111												-	-	-	-	-	-	-	-	-	-	-	-	-	111	-	
Missile Containers - Block II																																
Prior Years Deliveries: 66																																
3	2013	AF ⁽⁴⁾	42	4	38	5	8	4	4	3	3	3	2	2	2	2	2												-			
3	2013	NAVY ^(‡) ⁽⁵⁾	42	4	38	5	5	4	3	3	3	3	3	3	3	3	3												-			
3	2013	FMS ^(‡) ⁽⁶⁾	65	2	63	1	7	6	7	7	7	6	6	5	11	-	-											-				
3	2013	Total	149	10	139	11	20	14	14	13	13	12	11	10	16	5	O	C	N	E	A	M	A	P	M	A	P	M	A	S	E	P
																	C	T	V	E	B	R	R	Y	J	U	L	A	G	S	E	P

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)					Fiscal Year 2015												Fiscal Year 2016																				
O 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 A N C E						
3	2014	AF		63	-	63	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	5	4	4	4	-									
3	2014	NAVY (‡)		59	-	59	-	-	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	5	5	4	-									
3	2014	FMS (‡)		66	-	66	-	-	-	-	-	-	-	-	-	-	-	7	5	6	5	6	5	6	5	5	5	-									
3	2014	Total		188	-	188	-	-	-	-	-	-	-	-	-	-	-	18	16	17	16	17	17	15	15	14	13	-									
3	2015	AF		85	-	85													A	-	-	-	-	-	-	-	-	-	8	77							
3	2015	NAVY (‡)		47	-	47													A	-	-	-	-	-	-	-	-	-	4	43							
3	2015	FMS (‡)		35	-	35													A	-	-	-	-	-	-	-	-	-	3	32							
3	2015	Total		167	-	167													-	-	-	-	-	-	-	-	-	-	15	152							
3	2016	AF		144	-	144													A	-	-	-	-	-	-	-	-	-	-	144							
3	2016	NAVY (‡)		63	-	63													A	-	-	-	-	-	-	-	-	-	-	63							
3	2016	FMS (‡)		5	-	5													A	-	-	-	-	-	-	-	-	-	-	5							
3	2016	Total		212	-	212													-	-	-	-	-	-	-	-	-	-	-	212							
3	2017	AF		82	-	82																									82						
3	2017	NAVY (‡)		44	-	44																									44						
3	2017	FMS (‡)		15	-	15																									15						
3	2017	Total		141	-	141																									141						
3	2018	AF		65	-	65																									65						
3	2018	NAVY (‡)		43	-	43																									43						
3	2018	Total		108	-	108																									108						
3	2019	AF		62	-	62																									62						
3	2019	NAVY (‡)		44	-	44																									44						
3	2019	Total		106	-	106																									106						
3	2020	AF		60	-	60																									60						
3	2020	NAVY (‡)		43	-	43																									43						
3	2020	Total		103	-	103																									103						
3	2021	AF		49	-	49																									49						
3	2021	NAVY (‡)		43	-	43																									43						
3	2021	Total		92	-	92																									92						
All Up Round - Block II Plus							4	2016	AF	75	-	75													A	-	-	-	-	-	-	-	-	75			
							4	2017	AF	140	-	140																									140
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)										Item Number / Title [DODIC]: - / Sidewinder (AIM-9X)																				
Cost Elements (Units in Each)					Fiscal Year 2015															Fiscal Year 2016																				
O 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 A N C E													
					O C T	N O V	D E C	J A N	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												
4	2017	NAVY (#)		78	-	78																																		78
4	2017	Total		218	-	218																																218		
4	2018	AF		100	-	100																																100		
4	2018	NAVY (#)		30	-	30																																30		
4	2018	Total		130	-	130																																130		
4	2019	AF		80	-	80																																80		
4	2019	NAVY (#)		30	-	30																																30		
4	2019	Total		110	-	110																																110		
4	2020	AF		80	-	80																																80		
4	2020	NAVY (#)		30	-	30																																30		
4	2020	Total		110	-	110																																110		
4	2021	AF		80	-	80																																80		
4	2021	NAVY (#)		30	-	30																																30		
4	2021	Total		110	-	110																																110		
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P												

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2017												Fiscal Year 2018												B A L A N C E	
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	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	O C T		
						O C T	N O V	D E C	J A N	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 (‡)	195	195	-																							-				
1	2014	Total	526	526	-																							-				
1	2015	AF	243	-	243	-	-	-	28	52	63	50	50	-	-	-	-										-					
1	2015	NAVY (‡)	113	1	112	-	40	40	22	10	-	-	-	-	-	-	-										-					
1	2015	FMS (‡)	102	9	93	8	9	8	9	8	9	8	9	9	8	9	9	9	8								-					
1	2015	Total	458	10	448	8	49	48	59	70	72	58	59	8	9	9	8	30	29	30	29	30	29	30	29	30	29					
1	2016	AF	354	-	354	-	-	-	-	-	-	-	-	-	-	-	-										-					
1	2017	AF	70	-	70				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	64				
1	2017	NAVY (‡)	37	-	37				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	34				
1	2017	Total	107	-	107				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	98					
1	2018	AF	51	-	51																							-	51			
1	2018	NAVY (‡)	84	-	84																							-	84			
1	2018	Total	135	-	135																							-	135			
1	2019	AF	140	-	140																							-	140			
1	2019	NAVY (‡)	86	-	86																							-	86			
1	2019	Total	226	-	226																							-	226			
1	2020	AF	135	-	135																							-	135			
1	2020	NAVY (‡)	87	-	87																							-	87			
1	2020	Total	222	-	222																							-	222			
1	2021	AF	97	-	97																							-	97			
1	2021	NAVY (‡)	90	-	90																							-	90			
1	2021	Total	187	-	187																							-	187			
Captive Air Training Missile (CATM) - Block II																																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2017												Fiscal Year 2018												B A L A N C E																
O C O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	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																		
						Calendar Year 2017												Calendar Year 2018																													
Prior Years Deliveries: 91																																															
2	2013	AF ⁽¹⁾	58	58	-																										-																
2	2013	NAVY ^(‡) ⁽²⁾	58	58	-																										-																
2	2013	FMS ^(‡) ⁽³⁾	62	62	-																										-																
2 2013 Total		178	178																												-																
2	2014	AF	55	55	-																										-																
2	2014	NAVY ^(‡)	47	47	-																										-																
2	2014	FMS ^(‡)	60	60	-																										-																
2 2014 Total		162	162																											-																	
2	2015	AF	60	12	48	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-									-																		
2	2015	NAVY ^(‡)	54	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									-																		
2	2015	FMS ^(‡)	13	2	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									-																		
2 2015 Total		127	68	59	49	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									-																		
2	2016	AF	77	-	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	6	7	6	7	6	7	6																		
2	2016	NAVY ^(‡)	50	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	5	4	4	4	4	-																		
2	2016	FMS ^(‡)	20	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	1	1	-																		
2 2016 Total		147	-	147	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	13	12	14	12	13	12	13	11	13	11																	
2	2017	AF	77	-	77																A -	-	-	-	-	-	-	-	-	8 69																	
2	2017	NAVY ^(‡)	37	-	37																A -	-	-	-	-	-	-	-	-	3 34																	
2	2017	FMS ^(‡)	48	-	48																A -	-	-	-	-	-	-	-	-	4 44																	
2 2017 Total		162	-	162																	-	-	-	-	-	-	-	-	15 147																		
2	2018	AF	75	-	75																A -	-	-	-	-	-	-	-	-	75																	
2	2018	NAVY ^(‡)	36	-	36																A -	-	-	-	-	-	-	-	-	36																	
2 2018 Total		111	-	111																	-	-	-	-	-	-	-	-	111																		
Missile Containers - Block II																																															
Prior Years Deliveries: 66																																															
3	2013	AF ⁽⁴⁾	42	42	-																										-																
3	2013	NAVY ^(‡) ⁽⁵⁾	42	42	-																										-																
3	2013	FMS ^(‡) ⁽⁶⁾	65	65	-																										-																
3 2013 Total		149	149																		O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P															

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2017												Fiscal Year 2018												
O 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 A N C E
3	2014	AF		63	63	-																									-
3	2014	NAVY (‡)		59	59	-																									-
3	2014	FMS (‡)		66	66	-																									-
3	2014	Total		188	188	-																									-
3	2015	AF		85	8	77	8	8	8	8	8	8	8	8	8	7	6	-											-		
3	2015	NAVY (‡)		47	4	43	4	4	4	4	4	4	4	4	4	4	4	4	3										-		
3	2015	FMS (‡)		35	3	32	3	3	3	3	3	3	3	3	3	3	3	3	2										-		
3	2015	Total		167	15	152	15	15	15	15	15	15	15	15	15	14	13	5										-			
3	2016	AF		144	-	144	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12	12	12	12	12	12	12	12	-		
3	2016	NAVY (‡)		63	-	63	-	-	-	-	-	-	-	-	-	-	-	-	6	5	5	6	5	5	6	5	5	5	-		
3	2016	FMS (‡)		5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	1	-		
3	2016	Total		212	-	212	-	-	-	-	-	-	-	-	-	-	-	-	19	17	17	19	17	19	17	17	18	17	18		
3	2017	AF		82	-	82			A -		-	-	-	-	-	-	-	-		12	12	12	12	12	12	12	12	12	12	75	
3	2017	NAVY (‡)		44	-	44			A -		-	-	-	-	-	-	-	-		6	5	5	6	5	5	6	5	5	5	40	
3	2017	FMS (‡)		15	-	15			A -		-	-	-	-	-	-	-	-		1	-	-	1	-	-	1	-	-	1	14	
3	2017	Total		141	-	141			-		-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	12	129	
3	2018	AF		65	-	65														A -	-	-	-	-	-	-	-	-	-	65	
3	2018	NAVY (‡)		43	-	43														A -	-	-	-	-	-	-	-	-	-	43	
3	2018	Total		108	-	108														-	-	-	-	-	-	-	-	-	-	108	
3	2019	AF		62	-	62																									62
3	2019	NAVY (‡)		44	-	44																									44
3	2019	Total		106	-	106																									106
3	2020	AF		60	-	60																									60
3	2020	NAVY (‡)		43	-	43																									43
3	2020	Total		103	-	103																									103
3	2021	AF		49	-	49																									49
3	2021	NAVY (‡)		43	-	43																									43
3	2021	Total		92	-	92																									92

All Up Round - Block II Plus

4	2016	AF	75	-	75	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	7	7	-	-
4	2017	AF	140	-	140													A -	-	-	-	-	-	-	-	-	-	-	-	128
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016											
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)										Item Number / Title [DODIC]: - / Sidewinder (AIM-9X)												
Cost Elements (Units in Each)						Fiscal Year 2017														Fiscal Year 2018												B A L A N C E
O C O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	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			
4	2017	NAVY (#)	78	-	78				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	71		
4	2017	Total	218	-	218				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	199		
4	2018	AF	100	-	100																											100
4	2018	NAVY (#)	30	-	30																											30
4	2018	Total	130	-	130																											130
4	2019	AF	80	-	80																											80
4	2019	NAVY (#)	30	-	30																											30
4	2019	Total	110	-	110																											110
4	2020	AF	80	-	80																											80
4	2020	NAVY (#)	30	-	30																											30
4	2020	Total	110	-	110																											110
4	2021	AF	80	-	80																											80
4	2021	NAVY (#)	30	-	30																											30
4	2021	Total	110	-	110																											110
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2019												Fiscal Year 2020												B A L A N C E	
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	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	O C T		
						O C T	N O V	D E C	J A N	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 (‡)	195	195	-																							-				
1	2014	Total	526	526	-																							-				
1	2015	AF	243	243	-																							-				
1	2015	NAVY (‡)	113	113	-																							-				
1	2015	FMS (‡)	102	102	-																							-				
1	2015	Total	458	458	-																							-				
1	2016	AF	354	354	-																							-				
1	2017	AF	70	6	64	6	6	6	6	5	6	6	6	6	6	6	6	5									-					
1	2017	NAVY (‡)	37	3	34	3	3	3	3	3	3	3	3	3	3	3	3	4									-					
1	2017	Total	107	9	98	9	9	9	9	8	9									-												
1	2018	AF	51	-	51	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	5	4	5	4	5	4			
1	2018	NAVY (‡)	84	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7	7	7	7			
1	2018	Total	135	-	135	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	11	11	11	12	11	12	11	12	11			
1	2019	AF	140	-	140			A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	128		
1	2019	NAVY (‡)	86	-	86			A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	79		
1	2019	Total	226	-	226			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	207			
1	2020	AF	135	-	135														A	-	-	-	-	-	-	-	-	-	-	-	-	135
1	2020	NAVY (‡)	87	-	87														A	-	-	-	-	-	-	-	-	-	-	-	-	87
1	2020	Total	222	-	222														-	-	-	-	-	-	-	-	-	-	-	222		
1	2021	AF	97	-	97																										97	
1	2021	NAVY (‡)	90	-	90																										90	
1	2021	Total	187	-	187																								187			
Captive Air Training Missile (CATM) - Block II							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2019												Fiscal Year 2020												B A L A N C E
O C O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	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		
						Calendar Year 2019												Calendar Year 2020													
Prior Years Deliveries: 91																															
2	2013	AF ⁽¹⁾	58	58	-																										-
2	2013	NAVY ^(‡) ⁽²⁾	58	58	-																										-
2	2013	FMS ^(‡) ⁽³⁾	62	62	-																										-
2	2013	Total	178	178	-																									-	
2	2014	AF	55	55	-																									-	
2	2014	NAVY ^(‡)	47	47	-																									-	
2	2014	FMS ^(‡)	60	60	-																									-	
2	2014	Total	162	162	-																								-		
2	2015	AF	60	60	-																									-	
2	2015	NAVY ^(‡)	54	54	-																									-	
2	2015	FMS ^(‡)	13	13	-																									-	
2	2015	Total	127	127	-																								-		
2	2016	AF	77	77	-																									-	
2	2016	NAVY ^(‡)	50	50	-																									-	
2	2016	FMS ^(‡)	20	20	-																									-	
2	2016	Total	147	147	-																								-		
2	2017	AF	77	8	69	8	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	-			
2	2017	NAVY ^(‡)	37	3	34	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4					-			
2	2017	FMS ^(‡)	48	4	44	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4					-			
2	2017	Total	162	15	147	15	14	13	13	13	13	14					-														
2	2018	AF	75	-	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	-		
2	2018	NAVY ^(‡)	36	-	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	-		
2	2018	Total	111	-	111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	9	9	9	9	9	-		
Missile Containers - Block II																															
Prior Years Deliveries: 66																															
3	2013	AF ⁽⁴⁾	42	42	-																									-	
3	2013	NAVY ^(‡) ⁽⁵⁾	42	42	-																									-	
3	2013	FMS ^(‡) ⁽⁶⁾	65	65	-																									-	
3	2013	Total	149	149	-																								-		
			O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2019												Fiscal Year 2020												
O C O #	M F R #	V Y	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 A N C E
3	2014	AF		63	63	-																								-	
3	2014	NAVY (‡)		59	59	-																								-	
3	2014	FMS (‡)		66	66	-																								-	
3	2014	Total		188	188	-																								-	
3	2015	AF		85	85	-																								-	
3	2015	NAVY (‡)		47	47	-																								-	
3	2015	FMS (‡)		35	35	-																								-	
3	2015	Total		167	167	-																								-	
3	2016	AF		144	144	-																								-	
3	2016	NAVY (‡)		63	63	-																								-	
3	2016	FMS (‡)		5	5	-																								-	
3	2016	Total		212	212	-																								-	
3	2017	AF		82	7	75	7	7	6	7	7	7	6	7	7	7	7	7	7	5	5	5	6	5	5	6	5	6	-		
3	2017	NAVY (‡)		44	4	40	4	3	3	4	4	4	4	3	4	4	4	4	3	4	4	3	3	4	4	3	4	4	-		
3	2017	FMS (‡)		15	1	14	1	1	2	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1	2	1	2	-		
3	2017	Total		141	12	129	12	11	11	12	12	12	12	11	12	12	12	12	12	12	9	9	8	9	9	8	9	10	9	-	
3	2018	AF		65	-	65	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	6	5	5	6	6	5	6	-	
3	2018	NAVY (‡)		43	-	43	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	3	3	4	3	4	4	3	-		
3	2018	Total		108	-	108	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	8	9	9	8	9	10	9	-		
3	2019	AF		62	-	62														A	-	-	-	-	-	-	-	-	6	56	
3	2019	NAVY (‡)		44	-	44														A	-	-	-	-	-	-	-	-	4	40	
3	2019	Total		106	-	106														-	-	-	-	-	-	-	-	10	96		
3	2020	AF		60	-	60																								60	
3	2020	NAVY (‡)		43	-	43																								43	
3	2020	Total		103	-	103																								103	
3	2021	AF		49	-	49																								49	
3	2021	NAVY (‡)		43	-	43																								43	
3	2021	Total		92	-	92																								92	
All Up Round - Block II Plus																															
4	2016	AF		75	75	-																								-	
4	2017	AF		140	12	128	12	11	12	12	11	12	12	11	12	12	12	11											-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)										Item Number / Title [DODIC]: - / Sidewinder (AIM-9X)																		
Cost Elements (Units in Each)						Fiscal Year 2019															Fiscal Year 2020																	
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019										Calendar Year 2020										B A L A N C E												
						O C T	N O V	D E C	J A N	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									
4	2017	NAVY (#)	78	7	71	6	7	6	7	6	7	6	7	6	7	6	8	8	9	8	8	9	8	9	8	9	8	9	-	-	-	-	-	-	-	-	-	
4	2017	Total	218	19	199	18	18	18	19	17	19	18	18	18	19	17	11	10	12	10	11	11	11	10	12	10	11	11	-	-	-	-	-	-	-	-	-	
4	2018	AF	100	-	100	-	-	-	-	-	-	-	-	-	-	-	3	2	3	2	3	2	3	2	3	2	3	2	-	-	-	-	-	-	-	-	-	
4	2018	NAVY (#)	30	-	30	-	-	-	-	-	-	-	-	-	-	-	11	10	12	10	11	11	11	10	12	10	11	11	-	-	-	-	-	-	-	-	-	
4	2018	Total	130	-	130	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	74
4	2019	AF	80	-	80	A -										A -										-										3	27	
4	2019	NAVY (#)	30	-	30	A -										A -										-										9	101	
4	2019	Total	110	-	110	-										-										A -										80	-	
4	2020	AF	80	-	80	-										-										A -										30	-	
4	2020	NAVY (#)	30	-	30	-										-										A -										110	-	
4	2020	Total	110	-	110	-										-										-										80	-	
4	2021	AF	80	-	80	-										-										-										30	-	
4	2021	NAVY (#)	30	-	30	-										-										-										110	-	
4	2021	Total	110	-	110	-										-										-										80	-	
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2021												Fiscal Year 2022												B A L A N C E	
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	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	O C T		
						O C T	N O V	D E C	J A N	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 (‡)	195	195	-																							-				
1	2014	Total	526	526	-																							-				
1	2015	AF	243	243	-																							-				
1	2015	NAVY (‡)	113	113	-																							-				
1	2015	FMS (‡)	102	102	-																							-				
1	2015	Total	458	458	-																							-				
1	2016	AF	354	354	-																							-				
1	2017	AF	70	70	-																							-				
1	2017	NAVY (‡)	37	37	-																							-				
1	2017	Total	107	107	-																							-				
1	2018	AF	51	51	-																							-				
1	2018	NAVY (‡)	84	84	-																							-				
1	2018	Total	135	135	-																							-				
1	2019	AF	140	12	128	12	11	12	12	11	12	12	11	12	12	11	12	12	11	11	11	12	11	11	12	11	11					
1	2019	NAVY (‡)	86	7	79	7	7	7	7	8	7	7	7	7	7	7	7	7	8	7	7	7	8	7	7	8	-					
1	2019	Total	226	19	207	19	18	19	19	19	19	19	18	19	19	19	19	19	19	11	11	11	12	11	11	12	11	11				
1	2020	AF	135	-	135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	11	12	11	11	11	12	11				
1	2020	NAVY (‡)	87	-	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	8	7	7	8	7	7				
1	2020	Total	222	-	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	18	20	18	18	18	20	18				
1	2021	AF	97	-	97															A	-	-	-	-	-	-	-	-				
1	2021	NAVY (‡)	90	-	90															A	-	-	-	-	-	-	-	-				
1	2021	Total	187	-	187															-	-	-	-	-	-	-	-	17	170			
Captive Air Training Missile (CATM) - Block II							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2021												Fiscal Year 2022												B A L A N C E
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	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		
						Calendar Year 2021												Calendar Year 2022													
Prior Years Deliveries: 91																															
2	2013	AF ⁽¹⁾	58	58	-																										-
2	2013	NAVY ^(‡) ⁽²⁾	58	58	-																										-
2	2013	FMS ^(‡) ⁽³⁾	62	62	-																										-
2	2013	Total	178	178	-																									-	
2	2014	AF	55	55	-																									-	
2	2014	NAVY ^(‡)	47	47	-																									-	
2	2014	FMS ^(‡)	60	60	-																									-	
2	2014	Total	162	162	-																								-		
2	2015	AF	60	60	-																									-	
2	2015	NAVY ^(‡)	54	54	-																									-	
2	2015	FMS ^(‡)	13	13	-																								-		
2	2015	Total	127	127	-																								-		
2	2016	AF	77	77	-																									-	
2	2016	NAVY ^(‡)	50	50	-																									-	
2	2016	FMS ^(‡)	20	20	-																									-	
2	2016	Total	147	147	-																								-		
2	2017	AF	77	77	-																									-	
2	2017	NAVY ^(‡)	37	37	-																									-	
2	2017	FMS ^(‡)	48	48	-																									-	
2	2017	Total	162	162	-																								-		
2	2018	AF	75	75	-																									-	
2	2018	NAVY ^(‡)	36	36	-																									-	
2	2018	Total	111	111	-																								-		
Missile Containers - Block II																															
Prior Years Deliveries: 66																															
3	2013	AF ⁽⁴⁾	42	42	-																									-	
3	2013	NAVY ^(‡) ⁽⁵⁾	42	42	-																									-	
3	2013	FMS ^(‡) ⁽⁶⁾	65	65	-																									-	
3	2013	Total	149	149	-																									-	
			O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2021												Fiscal Year 2022												
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L A N C E
3	2014	AF		63	63	-																								-	
3	2014	NAVY (‡)		59	59	-																								-	
3	2014	FMS (‡)		66	66	-																								-	
3	2014	Total		188	188	-																							-		
3	2015	AF		85	85	-																								-	
3	2015	NAVY (‡)		47	47	-																							-		
3	2015	FMS (‡)		35	35	-																							-		
3	2015	Total		167	167	-																							-		
3	2016	AF		144	144	-																							-		
3	2016	NAVY (‡)		63	63	-																							-		
3	2016	FMS (‡)		5	5	-																							-		
3	2016	Total		212	212	-																							-		
3	2017	AF		82	82	-																							-		
3	2017	NAVY (‡)		44	44	-																							-		
3	2017	FMS (‡)		15	15	-																							-		
3	2017	Total		141	141	-																							-		
3	2018	AF		65	65	-																							-		
3	2018	NAVY (‡)		43	43	-																							-		
3	2018	Total		108	108	-																							-		
3	2019	AF		62	6	56	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	-		
3	2019	NAVY (‡)		44	4	40	4	3	3	4	4	4	3	4	4	4	4	4	4	4	4	3							-		
3	2019	Total		106	10	96	10	8	8	9	9	9	8	9	9	9	9	9	9	9	8								-		
3	2020	AF		60	-	60	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	5	5	-		
3	2020	NAVY (‡)		43	-	43	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	3	4	3	4	3	4	-		
3	2020	Total		103	-	103	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	9	8	9	8	9	8	9	-		
3	2021	AF		49	-	49														A	-	-	-	-	-	-	-	-	5	44	
3	2021	NAVY (‡)		43	-	43														A	-	-	-	-	-	-	-	-	4	39	
3	2021	Total		92	-	92														-	-	-	-	-	-	-	-	9	83		
All Up Round - Block II Plus																															
4	2016	AF		75	75	-																								-	
4	2017	AF		140	140	-																								-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)										Item Number / Title [DODIC]: - / Sidewinder (AIM-9X)																
Cost Elements (Units in Each)						Fiscal Year 2021												Fiscal Year 2022																		
O C O #	M F R	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	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 A N C E					
4	2017	NAVY (#)		78	78	-																													-	
4	2017	Total		218	218	-																												-		
4	2018	AF		100	100	-																												-		
4	2018	NAVY (#)		30	30	-																												-		
4	2018	Total		130	130	-																												-		
4	2019	AF		80	6	74	7	7	6	7	7	6	7	7	6	7	6	7	7	6	7	7	6	7	7	6	7	7	6	7	7	-				
4	2019	NAVY (#)		30	3	27	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	-			
4	2019	Total		110	9	101	9	10	8	10	9	9	9	10	9	10	8	10	9	10	9	10	9	10	9	10	9	10	9	10	9	10	-			
4	2020	AF		80	-	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	6	7	7	6	7	7	6	7	7	6		
4	2020	NAVY (#)		30	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	3	2	3	2	3	2	3	2	3	2		
4	2020	Total		110	-	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	9	9	9	10	8	10	9	9	9	10	8		
4	2021	AF		80	-	80																	A -	-	-	-	-	-	-	-	-	-	-	-	6	74
4	2021	NAVY (#)		30	-	30																	A -	-	-	-	-	-	-	-	-	-	-	-	3	27
4	2021	Total		110	-	110																-	-	-	-	-	-	-	-	-	-	-	-	9	101	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2023												Fiscal Year 2024																	
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
						B A L A N C E																														
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 (‡)	195	195	-																															
1	2014	Total	526	526	-																															
1	2015	AF	243	243	-																															
1	2015	NAVY (‡)	113	113	-																															
1	2015	FMS (‡)	102	102	-																															
1	2015	Total	458	458	-																															
1	2016	AF	354	354	-																															
1	2017	AF	70	70	-																															
1	2017	NAVY (‡)	37	37	-																															
1	2017	Total	107	107	-																															
1	2018	AF	51	51	-																															
1	2018	NAVY (‡)	84	84	-																															
1	2018	Total	135	135	-																															
1	2019	AF	140	140	-																															
1	2019	NAVY (‡)	86	86	-																															
1	2019	Total	226	226	-																															
1	2020	AF	135	135	-																															
1	2020	NAVY (‡)	87	87	-																															
1	2020	Total	222	222	-																															
1	2021	AF	97	9	88	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8					
1	2021	NAVY (‡)	90	8	82	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8	7	8					
1	2021	Total	187	17	170	15	16	15	16	15	16	15	16	15	16	15	16	15	16	15	16	15	16	15	16	15	16	15	16	15	16	15				

Captive Air Training Missile (CATM) - Block II

O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
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Exhibit P-21, Production Schedule: PB 2017 Air Force

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2023												Fiscal Year 2024												B A L A N C E
O C R O #	M F R Y	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		
						Calendar Year 2023												Calendar Year 2024													
Prior Years Deliveries: 91																															
2	2013	AF ⁽¹⁾	58	58	-																										-
2	2013	NAVY ^(‡) ⁽²⁾	58	58	-																										-
2	2013	FMS ^(‡) ⁽³⁾	62	62	-																										-
2	2013	Total	178	178	-																									-	
2	2014	AF	55	55	-																									-	
2	2014	NAVY ^(‡)	47	47	-																									-	
2	2014	FMS ^(‡)	60	60	-																									-	
2	2014	Total	162	162	-																								-		
2	2015	AF	60	60	-																									-	
2	2015	NAVY ^(‡)	54	54	-																									-	
2	2015	FMS ^(‡)	13	13	-																								-		
2	2015	Total	127	127	-																								-		
2	2016	AF	77	77	-																									-	
2	2016	NAVY ^(‡)	50	50	-																									-	
2	2016	FMS ^(‡)	20	20	-																								-		
2	2016	Total	147	147	-																								-		
2	2017	AF	77	77	-																									-	
2	2017	NAVY ^(‡)	37	37	-																									-	
2	2017	FMS ^(‡)	48	48	-																								-		
2	2017	Total	162	162	-																								-		
2	2018	AF	75	75	-																									-	
2	2018	NAVY ^(‡)	36	36	-																									-	
2	2018	Total	111	111	-																								-		
Missile Containers - Block II																															
Prior Years Deliveries: 66																															
3	2013	AF ⁽⁴⁾	42	42	-																									-	
3	2013	NAVY ^(‡) ⁽⁵⁾	42	42	-																									-	
3	2013	FMS ^(‡) ⁽⁶⁾	65	65	-																									-	
3	2013	Total	149	149	-																									-	
			O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2023												Fiscal Year 2024												
O C R #	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 A N C E
3	2014	AF		63	63	-																								-	
3	2014	NAVY (‡)		59	59	-																								-	
3	2014	FMS (‡)		66	66	-																								-	
3	2014	Total		188	188	-																								-	
3	2015	AF		85	85	-																								-	
3	2015	NAVY (‡)		47	47	-																								-	
3	2015	FMS (‡)		35	35	-																								-	
3	2015	Total		167	167	-																								-	
3	2016	AF		144	144	-																								-	
3	2016	NAVY (‡)		63	63	-																								-	
3	2016	FMS (‡)		5	5	-																								-	
3	2016	Total		212	212	-																								-	
3	2017	AF		82	82	-																								-	
3	2017	NAVY (‡)		44	44	-																								-	
3	2017	FMS (‡)		15	15	-																								-	
3	2017	Total		141	141	-																								-	
3	2018	AF		65	65	-																								-	
3	2018	NAVY (‡)		43	43	-																								-	
3	2018	Total		108	108	-																								-	
3	2019	AF		62	62	-																								-	
3	2019	NAVY (‡)		44	44	-																								-	
3	2019	Total		106	106	-																								-	
3	2020	AF		60	60	-																								-	
3	2020	NAVY (‡)		43	43	-																								-	
3	2020	Total		103	103	-																								-	
3	2021	AF		49	5	44	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	-		
3	2021	NAVY (‡)		43	4	39	4	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	-			
3	2021	Total		92	9	83	8	8	7	8	7	8	7	8	7	8	7	-													
All Up Round - Block II Plus																															
4	2016	AF		75	75	-																									-
4	2017	AF		140	140	-																									-
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
M09HAI / Sidewinder (AIM-9X)

Item Number / Title [DODIC]:
- / Sidewinder (AIM-9X)

Cost Elements (Units in Each)							Fiscal Year 2023												Fiscal Year 2024											
O C R O #	M F R Y	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
4	2017	NAVY (#)	78	78	-																									-
4	2017	Total	218	218	-																									-
4	2018	AF	100	100	-																									-
4	2018	NAVY (#)	30	30	-																									-
4	2018	Total	130	130	-																									-
4	2019	AF	80	80	-																									-
4	2019	NAVY (#)	30	30	-																									-
4	2019	Total	110	110	-																									-
4	2020	AF	80	80	-																									-
4	2020	NAVY (#)	30	30	-																									-
4	2020	Total	110	110	-																									-
4	2021	AF	80	6	74	7	7	7	6	7	7	7	6	7	6	7	6	7	6	7									-	
4	2021	NAVY (#)	30	3	27	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2									-	
4	2021	Total	110	9	101	9	10	9	9	9	10	9	9	9	9	9	9	9	9	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	

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Exhibit P-21, Production Schedule: PB 2017 Air Force										Date: February 2016		
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)			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Raytheon Missile Systems - Tucson, AZ	300	600	900	-	-	-	-	-	5	19	24
2	Raytheon Missile Systems - Tucson, AZ	300	600	900	-	-	-	-	-	5	19	24
3	Raytheon Missile Systems - Tucson, AZ	300	600	900	-	-	-	-	-	5	19	24
4	Raytheon Missile Systems - Tucson, AZ	300	600	900	-	-	-	-	-	5	19	24

Remarks:

Due to system limitations, the Annual Production Rates do not accurately reflect the programs limitations. The Minimum Sustainment Rate is 300 missiles of any mix required of All Up Rounds (Item 1), Captive Air Training Missiles (Item 2), and All Up Round Block II Plus (Item 3). The ECON rate is 600 missiles of any mix required, and the MAX production rate is 900 missiles of any mix required. The vendor has the ability for a limited-time surge-capacity of 1,000 missiles in one year to fulfill one-time unusual, high priority missile buys, as in FY16. In addition, the vendor reserves space for depot repairs using the same production line, enabling some additional production trade space.

Annual Production Rate limitations are based on 4 missiles per 1 container ratio.

Due to system limitations, FY12 FMS quantities of 56 All Up Rounds delivering in August of 2014 are not displayed

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

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

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

Footnotes:

- (1) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2014 loaded in the month of first delivery.
- (2) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2014 loaded in the month of first delivery.
- (3) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2014 loaded in the month of first delivery.
- (4) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2014 loaded in the month of first delivery.
- (5) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2014 loaded in the month of first delivery.
- (6) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2014 loaded in the month of first delivery.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical					P-1 Line Item Number / Title: MAMRA0 / AMRAAM							
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A					Other Related Program Elements: 0207163F				
Line Item MDAP/MAIS Code: 185		Item MDAP/MAIS Code(s): N/A										
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	9,023	223	262	256	-	256	388	404	414	403	1,478	12,851
Gross/Weapon System Cost (<i>\$ in Millions</i>)	8,382.645	329.600	380.028	350.144	-	350.144	445.548	470.016	472.962	468.452	1,709.435	13,008.830
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	8,382.645	329.600	380.028	350.144	-	350.144	445.548	470.016	472.962	468.452	1,709.435	13,008.830
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	8,382.645	329.600	380.028	350.144	-	350.144	445.548	470.016	472.962	468.452	1,709.435	13,008.830
<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>)	80.700	2.062	1.996	2.072	-	2.072	2.063	2.041	2.076	2.113	6.596	101.719
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.929	1.478	1.450	1.368	-	1.368	1.148	1.163	1.142	1.162	1.157	1.012
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 a small, light, fast missile with improved capabilities against very low and high-altitude targets in an electronic attack (EA) environment. Funding also used to address Diminishing Manufacturing Sources (DMS) issues.												
The FY17 funding request was reduced by \$7.376 million to account for the availability of prior year execution balances.												
Funding for this exhibit is contained in PE 0207163F.												

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical				P-1 Line Item Number / Title: MAMRA0 / AMRAAM			
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A			
Line Item MDAP/MAIS Code: 185		Item MDAP/MAIS Code(s): N/A					
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	AMRAAM	P-5a, P-21	A	9,023 / 8,382.645	223 / 329.600	262 / 380.028	256 / 350.144
P-40	Total Gross/Weapon System Cost			9,023 / 8,382.645	223 / 329.600	262 / 380.028	256 / 350.144
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021
Exhibit Type	Title*	Subexhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	AMRAAM	P-5a, P-21	A	388 / 445.548	404 / 470.016	414 / 472.962	403 / 468.452
P-40	Total Gross/Weapon System Cost			388 / 445.548	404 / 470.016	414 / 472.962	403 / 468.452

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

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

Justification:

FY17 continues the procurement and support of AMRAAM for the Air Force and Navy in Lot 31. USAF funds will Procure 256 AIM-120D missiles. 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, while continuing to develop second source suppliers for critical items. Resolve production Diminishing Manufacturing Sources/Material Shortages/Obssolescence 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).

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Exhibit P-5, Cost Analysis: PB 2017 Air Force											Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2			P-1 Line Item Number / Title: MAMRA0 / AMRAAM											Item Number / Title [DODIC]: - / AMRAAM			
ID Code (A=Service Ready, B=Not Service Ready) : A											MDAP/MAIS Code:						
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total				
Procurement Quantity (<i>Units in Each</i>)		9,023	223	262	256	-	256	388	404	414	403	1,478	12,851				
Gross/Weapon System Cost (\$ in Millions)		8,382.645	329.600	380.028	350.144	-	350.144	445.548	470.016	472.962	468.452	1,709.435	13,008.830				
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-				
Net Procurement (P-1) (\$ in Millions)		8,382.645	329.600	380.028	350.144	-	350.144	445.548	470.016	472.962	468.452	1,709.435	13,008.830				
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-				
Total Obligation Authority (\$ in Millions)		8,382.645	329.600	380.028	350.144	-	350.144	445.548	470.016	472.962	468.452	1,709.435	13,008.830				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																	
Initial Spares (\$ in Millions)		80.700	2.062	1.996	2.072	-	2.072	2.063	2.041	2.076	2.113	6.596	101.719				
Gross/Weapon System Unit Cost (\$ in Millions)		0.929	1.478	1.450	1.368	-	1.368	1.148	1.163	1.142	1.162	1.157	1.012				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																	
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO				
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)		
Hardware - Hardware End Item Cost																	
Recurring Cost																	
AIM-120 Missile All Up Round (AUR) ^(†)	1.091	838	914.517	0.982	223	219.040	0.929	262	243.505	0.988	256	252.994	-	-	-		
AIM-120 Missile Captive Air Training Missile (CATM) ^(†)	0.635	444	281.823	-	-	-	-	-	-	-	-	-	-	-	-		
Warranty	-	-	70.328	-	-	-	-	-	-	-	-	-	-	-	-		
Diminishing Manufacturing Sources/Material Shortages (DMS/MS)	-	-	276.327	-	-	76.780	-	-	76.255	-	-	48.025	-	-	48.025		
Tooling and Test Equipment	-	-	50.723	-	-	12.340	-	-	18.949	-	-	2.232	-	-	2.232		
Engineering Change Orders	-	-	2.755	-	-	1.000	-	-	1.621	-	-	1.154	-	-	1.154		
Total Prior Years Costs	0.844	7,741	6,533.669	-	-	-	-	-	-	-	-	-	-	-	-		
<i>Subtotal: Recurring Cost</i>	-	-	<i>8,130.142</i>	-	-	<i>309.160</i>	-	-	<i>340.330</i>	-	-	<i>304.405</i>	-	-	<i>304.405</i>		
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	<i>8,130.142</i>	-	-	<i>309.160</i>	-	-	<i>340.330</i>	-	-	<i>304.405</i>	-	-	<i>304.405</i>		
Ancillary Equipment - AncillaryEquipment End Item Cost																	
Recurring Cost																	

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016													
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2				P-1 Line Item Number / Title: MAMRA0 / AMRAAM									Item Number / Title [DODIC]: - / AMRAAM													
ID Code (A=Service Ready, B=Not Service Ready) : A													MDAP/MAIS Code:													
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																										
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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	-	-	4.837	-	-	0.896	-	-	0.896	-	-	0.896	-	-	-	-	-	0.896								
<i>Subtotal: Recurring Cost</i>	-	-	4.837	-	-	0.896	-	-	0.896	-	-	0.896	-	-	-	-	-	0.896								
<i>Subtotal: Ancillary Equipment - AncillaryEquipment End Item Cost</i>	-	-	4.837	-	-	0.896	-	-	0.896	-	-	0.896	-	-	-	-	-	0.896								
Support - Support End Item Cost																										
Production Test/Support	-	-	104.326	-	-	5.207	-	-	6.655	-	-	8.219	-	-	-	-	-	8.219								
PMA Other Government Costs	-	-	9.574	-	-	0.620	-	-	1.897	-	-	1.370	-	-	-	-	-	1.370								
PMA Contractor Services	-	-	12.735	-	-	1.137	-	-	2.379	-	-	2.449	-	-	-	-	-	2.449								
Training Equipment	-	-	121.031	-	-	12.580	-	-	27.871	-	-	32.805	-	-	-	-	-	32.805								
<i>Subtotal: Support - Support End Item Cost</i>	-	-	247.666	-	-	19.544	-	-	38.802	-	-	44.843	-	-	-	-	-	44.843								
Gross/Weapon System Cost	0.929	9,023	8,382.645	1.478	223	329.600	1.450	262	380.028	1.368	256	350.144	-	-	-	1.368	256	350.144								
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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-120 Missile All Up Round (AUR) ^(†)	0.931	388	361.416	0.933	404	376.786	0.935	414	387.029	0.948	403	381.956	0.951	1,478	1,405.769	0.974	4,666	4,543.012								
AIM-120 Missile Captive Air Training Missile (CATM) ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.635	444	281.823									
Warranty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70.328								
Diminishing Manufacturing Sources/Material Shortages (DMS/MS)	-	-	29.989	-	-	31.526	-	-	29.298	-	-	29.021	-	-	105.719	-	-	702.940								
Tooling and Test Equipment	-	-	3.194	-	-	5.308	-	-	3.300	-	-	3.347	-	-	17.675	-	-	117.068								
Engineering Change Orders	-	-	1.130	-	-	1.164	-	-	1.152	-	-	1.041	-	-	4.085	-	-	15.102								
Total Prior Years Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.844	7,741	6,533.669									
<i>Subtotal: Recurring Cost</i>	-	-	395.729	-	-	414.784	-	-	420.779	-	-	415.365	-	-	1,533.248	-	-	12,263.942								

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2					P-1 Line Item Number / Title: MAMRA0 / AMRAAM								Item Number / Title [DODIC]: - / AMRAAM							
ID Code (A=Service Ready, B=Not Service Ready) : A													MDAP/MAIS Code:							
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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)		
Subtotal: Hardware - Hardware End Item Cost	-	-	395.729	-	-	414.784	-	-	420.779	-	-	415.365	-	-	1,533.248	-	-	12,263.942		
Ancillary Equipment - AncillaryEquipment End Item Cost																				
Recurring Cost																				
Containers and Cables	-	-	0.896	-	-	0.896	-	-	0.914	-	-	0.932	-	-	2.910	-	-	14.073		
Subtotal: Recurring Cost	-	-	0.896	-	-	0.896	-	-	0.914	-	-	0.932	-	-	2.910	-	-	14.073		
Subtotal: Ancillary Equipment - AncillaryEquipment End Item Cost	-	-	0.896	-	-	0.896	-	-	0.914	-	-	0.932	-	-	2.910	-	-	14.073		
Support - Support End Item Cost																				
Production Test/Support	-	-	9.256	-	-	9.580	-	-	9.697	-	-	9.752	-	-	32.912	-	-	195.604		
PMA Other Government Costs	-	-	1.375	-	-	1.377	-	-	1.405	-	-	1.433	-	-	4.473	-	-	23.524		
PMA Contractor Services	-	-	2.497	-	-	2.547	-	-	2.598	-	-	2.650	-	-	8.272	-	-	37.264		
Training Equipment	-	-	35.795	-	-	40.832	-	-	37.569	-	-	38.320	-	-	127.620	-	-	474.423		
Subtotal: Support - Support End Item Cost	-	-	48.923	-	-	54.336	-	-	51.269	-	-	52.155	-	-	173.277	-	-	730.815		
Gross/Weapon System Cost	1.148	388	445.548	1.163	404	470.016	1.142	414	472.962	1.162	403	468.452	1.157	1,478	1,709.435	1.012	12,851	13,008.830		

Remarks:

- 1) The Total Prior Years Weapon System Cost Element, Prior Years column entries are composite numbers for all AIM-120 variants.
- 2) The Production/Test Support cost element includes costs such as engineering studies, technical support, network security, and modification of special test assets.
- 3) 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.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2			P-1 Line Item Number / Title: MAMRA0 / AMRAAM					Item Number / Title [DODIC]: - / AMRAAM				
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
AIM-120 Missile All Up Round (AUR) ^(†)		2014	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Dec 2014	Oct 2016	261	0.990	Y		Jul 2013
AIM-120 Missile All Up Round (AUR) ^(†)		2015	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2015	Apr 2017	223	0.982	Y		Jul 2013
AIM-120 Missile All Up Round (AUR) ^(†)		2016	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2016	Feb 2018	262	0.929	Y		Jul 2013
AIM-120 Missile All Up Round (AUR) ^(†)		2017	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2017	Feb 2019	256	0.988	Y		Mar 2016
AIM-120 Missile All Up Round (AUR) ^(†)		2018	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2018	Feb 2020	388	0.931	Y		Mar 2017
AIM-120 Missile All Up Round (AUR) ^(†)		2019	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2019	Feb 2021	404	0.933	Y		Mar 2018
AIM-120 Missile All Up Round (AUR) ^(†)		2020	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2020	Feb 2022	414	0.935	Y		Mar 2019
AIM-120 Missile All Up Round (AUR) ^(†)		2021	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2021	Feb 2023	403	0.948	Y		Mar 2020
AIM-120 Missile Captive Air Training Missile (CATM) ^(†)		2014	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB ⁽¹⁾	Dec 2014	Jun 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.

Footnotes:

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

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: MAMRA0 / AMRAAM										Item Number / Title [DODIC]: - / AMRAAM																			
Cost Elements (Units in Each)							Fiscal Year 2015												Fiscal Year 2016																				
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Fiscal Year 2015												Fiscal Year 2016											B A L A N C E										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										
AIM-120 Missile All Up Round (AUR)																																							
Prior Years Deliveries: 577																																							
1	2014	AF	261	-	261				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	261					
1	2014	FMS (‡)	300	-	300				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	238					
1	2014	NAVY (‡)	7	-	7				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7				
1	2014	Total	568	-	568				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	506					
1	2015	AF	223	-	223				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	223					
1	2015	FMS (‡)	333	-	333				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	333				
1	2015	Total	556	-	556				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	556				
1	2016	AF	262	-	262																																		262
1	2016	FMS (‡)	314	-	314																																		314
1	2016	NAVY (‡)	138	-	138																																		138
1	2016	Total	714	-	714																																		714
1	2017	AF	256	-	256																																		256
1	2017	FMS (‡)	250	-	250																																		250
1	2017	NAVY (‡)	163	-	163																																		163
1	2017	Total	669	-	669																																		669
1	2018	AF	388	-	388																																		388
1	2018	FMS (‡)	300	-	300																																		300
1	2018	NAVY (‡)	247	-	247																																		247
1	2018	Total	935	-	935																																		935
1	2019	AF	404	-	404																																		404
1	2019	FMS (‡)	300	-	300																																		300
1	2019	NAVY (‡)	260	-	260																																		260
1	2019	Total	964	-	964																																		964
1	2020	AF	414	-	414																																		414
1	2020	FMS (‡)	350	-	350																																		350
1	2020	NAVY (‡)	252	-	252																																		252
1	2020	Total	1,016	-	1,016																																		1,016
1	2021	AF	403	-	403																																		403
							O C T	N O V	D E C	J A N	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 A N C E								
							T	V	C	N	E	R	A	Y	J	U	G	S	P	O	V	D	E	R	A	Y	J	U	G	S	P								

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: MAMRA0 / AMRAAM										Item Number / Title [DODIC]: - / AMRAAM																				
Cost Elements (Units in Each)							Fiscal Year 2015												Fiscal Year 2016																					
O C R #	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 A N C E									
							O C T	N O V	D E C	J A N	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										
1	2021	FMS (#)		350	-	350																													350					
1	2021	NAVY (#)		248	-	248																													248					
1	2021	Total		1,001	-	1,001																													1,001					
AIM-120 Missile Captive Air Training Missile (CATM)																																								
Prior Years Deliveries: 426																																								
2	2014	AF		18	-	18				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	10			
2	2014	NAVY (#)		54	-	54				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	16	-	22				
2	2014	Total		72	-	72				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	8	16	-	32				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P										

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: MAMRA0 / AMRAAM										Item Number / Title [DODIC]: - / AMRAAM																		
Cost Elements (Units in Each)						Fiscal Year 2017												Fiscal Year 2018																				
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	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 A N C E							
AIM-120 Missile All Up Round (AUR)																																						
Prior Years Deliveries: 577																																						
1	2014	AF	261	-	261	65	-	-	65	-	-	65	-	-	-	66	-	-	-	-	80													-				
1	2014	FMS (‡)	300	62	238	35	-	-	-	-	-	48	-	-	-	75	-	-	-	80														-				
1	2014	NAVY (‡)	7	-	7	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-														-				
1	2014	Total	568	62	506	100	-	-	65	-	-	120	-	-	-	141	-	-	-	80														-				
1	2015	AF	223	-	223	-	-	-	-	-	-	55	-	-	-	56	-	-	-	-														-				
1	2015	FMS (‡)	333	-	333	-	-	-	-	-	-	66	-	-	-	40	-	-	-	-														153				
1	2015	Total	556	-	556	-	-	-	-	-	-	121	-	-	-	40	56	-	-	-														153				
1	2016	AF	262	-	262	-	-	-	-	-	-	-	-	-	-	-	-	-	-													126						
1	2016	FMS (‡)	314	-	314	-	-	-	-	-	-	-	-	-	-	-	-	-	-													158						
1	2016	NAVY (‡)	138	-	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-													70						
1	2016	Total	714	-	714	-	-	-	-	-	-	-	-	-	-	-	-	-	-													354						
1	2017	AF	256	-	256							A	-	-	-	-	-	-	-	-													256					
1	2017	FMS (‡)	250	-	250							A	-	-	-	-	-	-	-	-													250					
1	2017	NAVY (‡)	163	-	163							A	-	-	-	-	-	-	-	-													163					
1	2017	Total	669	-	669							-	-	-	-	-	-	-	-	-													669					
1	2018	AF	388	-	388													A	-	-	-	-														388		
1	2018	FMS (‡)	300	-	300													A	-	-	-	-														300		
1	2018	NAVY (‡)	247	-	247													A	-	-	-	-														247		
1	2018	Total	935	-	935													-	-	-	-	-														935		
1	2019	AF	404	-	404													A	-	-	-	-														404		
1	2019	FMS (‡)	300	-	300													A	-	-	-	-														300		
1	2019	NAVY (‡)	260	-	260													A	-	-	-	-														260		
1	2019	Total	964	-	964													A	-	-	-	-														964		
1	2020	AF	414	-	414													A	-	-	-	-														414		
1	2020	FMS (‡)	350	-	350													A	-	-	-	-														350		
1	2020	NAVY (‡)	252	-	252													A	-	-	-	-														252		
1	2020	Total	1,016	-	1,016													A	-	-	-	-														1,016		
1	2021	AF	403	-	403													O	C	N	O	D	E	J	A	F	M	A	P	M	A	P	M	A	S	E	P	403

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																																								
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: MAMRA0 / AMRAAM										Item Number / Title [DODIC]: - / AMRAAM																																								
Cost Elements (Units in Each)							Fiscal Year 2017												Fiscal Year 2018																																									
O C R O #	M F R	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	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 A N C E																													
1	2021	FMS (#)		350	-	350																								350																														
1	2021	NAVY (#)		248	-	248																								248																														
1	2021	Total		1,001	-	1,001																								1,001																														
AIM-120 Missile Captive Air Training Missile (CATM)																																																												
Prior Years Deliveries: 426																																																												
2	2014	AF		18	8	10	8	-	-	2																								-																										
2	2014	NAVY (#)		54	32	22	-	-	22	-																								-																										
2	2014	Total		72	40	32	8	-	22	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																														

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
MAMRA0 / AMRAAM

Item Number / Title [DODIC]:
- / AMRAAM

Cost Elements (Units in Each)							Fiscal Year 2019												Fiscal Year 2020												B A L A N C E	
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	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	O C T		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
AIM-120 Missile All Up Round (AUR)																																
Prior Years Deliveries: 577																																
1	2014	AF	261	261	-																							-				
1	2014	FMS (‡)	300	300	-																							-				
1	2014	NAVY (‡)	7	7	-																							-				
1	2014	Total	568	568	-																							-				
1	2015	AF	223	223	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
1	2015	FMS (‡)	333	180	153	-	-	-	-	101	-	-	-	52														-				
1	2015	Total	556	403	153	-	-	-	-	101	-	-	-	52														-				
1	2016	AF	262	136	126	70	-	-	-	56																		-				
1	2016	FMS (‡)	314	156	158	79	-	-	-	79																		-				
1	2016	NAVY (‡)	138	68	70	35	-	-	-	35																		-				
1	2016	Total	714	360	354	184	-	-	-	170																	-					
1	2017	AF	256	-	256	-	-	-	-	64	-	-	-	64	-	-	-	64	-	-	-	64					-					
1	2017	FMS (‡)	250	-	250	-	-	-	-	62	-	-	-	62	-	-	-	63	-	-	-	63					-					
1	2017	NAVY (‡)	163	-	163	-	-	-	-	40	-	-	-	41	-	-	-	41	-	-	-	41					-					
1	2017	Total	669	-	669	-	-	-	-	166	-	-	-	167	-	-	-	168	-	-	-	168					-					
1	2018	AF	388	-	388	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97	-					
1	2018	FMS (‡)	300	-	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	-					
1	2018	NAVY (‡)	247	-	247	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61	-						
1	2018	Total	935	-	935	-	-	-	-	-	A	-	-	-	-	-	-	233	-													
1	2019	AF	404	-	404					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	404					
1	2019	FMS (‡)	300	-	300					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300					
1	2019	NAVY (‡)	260	-	260					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	260					
1	2019	Total	964	-	964					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	964						
1	2020	AF	414	-	414																							414				
1	2020	FMS (‡)	350	-	350																							350				
1	2020	NAVY (‡)	252	-	252																							252				
1	2020	Total	1,016	-	1,016																						1,016					
1	2021	AF	403	-	403																							403				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: MAMRA0 / AMRAAM										Item Number / Title [DODIC]: - / AMRAAM																					
Cost Elements (Units in Each)							Fiscal Year 2019												Fiscal Year 2020																						
O C R 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											B A L A N C E											
O C T	N O V	D E C	J A N	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																		
1	2021	FMS (‡)	350	-	350																													350							
1	2021	NAVY (‡)	248	-	248																													248							
1	2021	Total	1,001	-	1,001																													1,001							
AIM-120 Missile Captive Air Training Missile (CATM)																																									
Prior Years Deliveries: 426																																									
2	2014	AF	18	18	-																															-					
2	2014	NAVY (‡)	54	54	-																															-					
2	2014	Total	72	72	-																															-					

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
MAMRA0 / AMRAAM

Item Number / Title [DODIC]:
- / AMRAAM

Cost Elements (Units in Each)							Fiscal Year 2021												Fiscal Year 2022												B A L A N C E			
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												B A L A N C E				
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
AIM-120 Missile All Up Round (AUR)																																		
Prior Years Deliveries: 577																																		
1	2014	AF	261	261	-																										-			
1	2014	FMS (‡)	300	300	-																										-			
1	2014	NAVY (‡)	7	7	-																									-				
1	2014	Total	568	568	-																									-				
1	2015	AF	223	223	-																									-				
1	2015	FMS (‡)	333	333	-																									-				
1	2015	Total	556	556	-																								-					
1	2016	AF	262	262	-																									-				
1	2016	FMS (‡)	314	314	-																								-					
1	2016	NAVY (‡)	138	138	-																								-					
1	2016	Total	714	714	-																								-					
1	2017	AF	256	256	-																									-				
1	2017	FMS (‡)	250	250	-																								-					
1	2017	NAVY (‡)	163	163	-																								-					
1	2017	Total	669	669	-																								-					
1	2018	AF	388	194	194	97	-	-	-	97																			-					
1	2018	FMS (‡)	300	150	150	75	-	-	-	75																			-					
1	2018	NAVY (‡)	247	122	125	62	-	-	-	63																			-					
1	2018	Total	935	466	469	234	-	-	-	235																		-						
1	2019	AF	404	-	404	-	-	-	-	101	-	-	-	-	101	-	-	-	-	101	-	-	-	101				-						
1	2019	FMS (‡)	300	-	300	-	-	-	-	75	-	-	-	-	75	-	-	-	-	75	-	-	-	75				-						
1	2019	NAVY (‡)	260	-	260	-	-	-	-	65	-	-	-	-	65	-	-	-	-	65	-	-	-	65				-						
1	2019	Total	964	-	964	-	-	-	-	241	-	-	-	-	241	-	-	-	-	241	-	-	-	241				-						
1	2020	AF	414	-	414	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104	-	-	-						
1	2020	FMS (‡)	350	-	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87	-	-	-						
1	2020	NAVY (‡)	252	-	252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	-	-	-						
1	2020	Total	1,016	-	1,016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	254	-	-	-						
1	2021	AF	403	-	403					A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	403					
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																						
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: MAMRA0 / AMRAAM										Item Number / Title [DODIC]: - / AMRAAM																							
Cost Elements (Units in Each)							Fiscal Year 2021												Fiscal Year 2022																								
O C R O #	M F R	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	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 A N C E												
O C R O #	M F R	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT		N O V	D E C	J A N	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													
1	2021	FMS (#)		350	-	350						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	350							
1	2021	NAVY (#)		248	-	248						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	248							
1	2021	Total		1,001	-	1,001						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,001								
AIM-120 Missile Captive Air Training Missile (CATM)																																											
Prior Years Deliveries: 426																																											
2	2014	AF		18	18	-																																			-		
2	2014	NAVY (#)		54	54	-																																			-		
2	2014	Total		72	72	-																																			-		
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																				

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 02 / 2

P-1 Line Item Number / Title:
MAMRA0 / AMRAAM

Item Number / Title [DODIC]:
- / AMRAAM

Cost Elements (Units in Each)							Fiscal Year 2023												Fiscal Year 2024												B A L A N C E															
O C R O #	M F R Y	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																	
						Calendar Year 2023												Calendar Year 2024																												
AIM-120 Missile All Up Round (AUR)																																														
Prior Years Deliveries: 577																																														
1	2014	AF	261	261	-																										-															
1	2014	FMS (‡)	300	300	-																										-															
1	2014	NAVY (‡)	7	7	-																									-																
1	2014	Total	568	568	-																									-																
1	2015	AF	223	223	-																									-																
1	2015	FMS (‡)	333	333	-																									-																
1	2015	Total	556	556	-																								-																	
1	2016	AF	262	262	-																									-																
1	2016	FMS (‡)	314	314	-																								-																	
1	2016	NAVY (‡)	138	138	-																								-																	
1	2016	Total	714	714	-																								-																	
1	2017	AF	256	256	-																								-																	
1	2017	FMS (‡)	250	250	-																								-																	
1	2017	NAVY (‡)	163	163	-																								-																	
1	2017	Total	669	669	-																								-																	
1	2018	AF	388	388	-																								-																	
1	2018	FMS (‡)	300	300	-																								-																	
1	2018	NAVY (‡)	247	247	-																								-																	
1	2018	Total	935	935	-																								-																	
1	2019	AF	404	404	-																								-																	
1	2019	FMS (‡)	300	300	-																								-																	
1	2019	NAVY (‡)	260	260	-																								-																	
1	2019	Total	964	964	-																								-																	
1	2020	AF	414	208	206	104	-	-	-	102																			-																	
1	2020	FMS (‡)	350	174	176	88	-	-	-	88																			-																	
1	2020	NAVY (‡)	252	126	126	63	-	-	-	63																			-																	
1	2020	Total	1,016	508	508	255	-	-	-	253																		-																		
1	2021	AF	403	-	403	-	-	-	-	-	101	-	-	-	-	101	-	-	-	101	-	-	-	100																						
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																	

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Number / Title:
MAMRA0 / AMRAAM

Item Number / Title [DODIC]:
- / AMRAAM

Cost Elements (Units in Each)						Fiscal Year 2023												Fiscal Year 2024												B A L A N C E						
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023												Calendar Year 2024												B A L A N C E					
							O C T	N O V	D E C	J A N	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						
1	2021	FMS (‡)	350	-	350	-	-	-	-	87	-	-	-	-	87	-	-	-	88	-	-	88													-	
1	2021	NAVY (‡)	248	-	248	-	-	-	-	19	20	20	21	21	21	21	21	21	21	21	21	21													-	
1	2021	Total	1,001	-	1,001	-	-	-	-	207	20	20	21	209	21	21	21	21	210	21	21	209													-	
AIM-120 Missile Captive Air Training Missile (CATM)																																				
Prior Years Deliveries: 426																																				
2	2014	AF		18	18	-																									-					
2	2014	NAVY (‡)		54	54	-	-																													
2	2014	Total		72	72	-	-																													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P						

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Exhibit P-21, Production Schedule: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2			P-1 Line Item Number / Title: MAMRA0 / AMRAAM					Item Number / Title [DODIC]: - / AMRAAM				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Raytheon Missile Systems - Tucson, AZ	400	400 ⁽²⁾	700	6	6	23	29	-	-	-	-
2	Raytheon Missile Systems - Tucson, AZ	400	400	700	-	15	18	33	-	-	-	-

(⁽²⁾) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

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

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

Footnotes:

(⁽²⁾) MSR for 2017: AIM-120 MSR is 400 missiles per year, consisting of the sum of USAF, USN and approved FMS procurement for the year with no less than 100 of a particular variant. MAX for 2017: is driven by parts limitation. This assumes at least 250 FMS missiles. MFR Ref#2- This is a system error. There will not be any CATM purchases for 2017.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical					P-1 Line Item Number / Title: PRDTA2 / Predator Hellfire Missile							
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A					Other Related Program Elements: 0305219F				
Line Item MDAP/MAIS Code: N/A			Item MDAP/MAIS Code(s): N/A									
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	624	3,143	6,256	284	1,252	1,536	206	370	227	343	-	12,705
Gross/Weapon System Cost (<i>\$ in Millions</i>)	64.928	359.347	697.718	33.955	145.125	179.080	34.797	63.011	39.776	60.870	-	1,499.527
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	64.928	359.347	697.718	33.955	145.125	179.080	34.797	63.011	39.776	60.870	-	1,499.527
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	64.928	359.347	697.718	33.955	145.125	179.080	34.797	63.011	39.776	60.870	-	1,499.527
<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>)	0.091	0.101	0.099	0.103	0.103	0.103	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.104	0.114	0.112	0.120	0.116	0.117	0.169	0.170	0.175	0.177	-	0.118
Description:												
FY2015 funding totals include \$315.469M appropriated for Overseas Contingency Operations.												
FY2016 funding totals include \$280.902M appropriated 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 2017 Air Force							Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical				P-1 Line Item Number / Title: PRDTA2 / Predator Hellfire Missile					
ID Code (A=Service Ready, B=Not Service Ready): A		Program Elements for Code B Items: N/A				Other Related Program Elements: 0305219F			
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A							
Exhibit Type	Title*	Subexhibits	ID CD	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
P-5	Predator Hellfire Missile	P-5a, P-21	A	Quantity / Total Cost (Each) / (\$ M) 624 / 64.928	Quantity / Total Cost (Each) / (\$ M) 3,143 / 359.347	Quantity / Total Cost (Each) / (\$ M) 6,256 / 697.718	Quantity / Total Cost (Each) / (\$ M) 284 / 33.955	Quantity / Total Cost (Each) / (\$ M) 1,252 / 145.125	Quantity / Total Cost (Each) / (\$ M) 1,536 / 179.080
P-40	Total Gross/Weapon System Cost			624 / 64.928	3,143 / 359.347	6,256 / 697.718	284 / 33.955	1,252 / 145.125	1,536 / 179.080

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

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

Justification:

Missile procurement for 284 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 (R, R-2, 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 prices for purchase through the Army. The Hellfire missiles are used for test, training and operations.

In 2017, OCO funds will procure an additional 1,252 Hellfire missiles, flight training missiles, telemetry measurement (TM) kits, load training missiles and production implementation for the Height of Burst capability for R-model variants which incorporate a multi-purpose warhead, variable delay fuze and increased lethality. Overseas Contingency Operations funding replenishes high expenditure rates of Hellfire missiles in current operations. Multiple variants (R, R-2, 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 prices 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 2017 Air Force													Date: February 2016						
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) : A													MDAP/MAIS Code:						
Resource Summary				Prior Years			FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (<i>Units in Each</i>)							624		3,143		6,256		284		1,252		1,536		
Gross/Weapon System Cost (\$ in Millions)							64.928		359.347		697.718		33.955		145.125		179.080		
Less PY Advance Procurement (\$ in Millions)							-		-		-		-		-		-		
Net Procurement (P-1) (\$ in Millions)							64.928		359.347		697.718		33.955		145.125		179.080		
Plus CY Advance Procurement (\$ in Millions)							-		-		-		-		-		-		
Total Obligation Authority (\$ in Millions)							64.928		359.347		697.718		33.955		145.125		179.080		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares (\$ in Millions)							0.000		-		-		-		-		-		
Gross/Weapon System Unit Cost (\$ in Millions)							0.104		0.114		0.112		0.120		0.116		0.117		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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	0.101	3,143	318.929	0.099	6,256	620.035	0.103	284	29.286	0.103	1,252	129.161	0.103	1,536	158.447	
<i>Subtotal: Recurring Cost</i>	-	-	56.786	-	-	318.929	-	-	620.035	-	-	29.286	-	-	129.161	-	-	158.447	
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	56.786	-	-	318.929	-	-	620.035	-	-	29.286	-	-	129.161	-	-	158.447	
Hardware - Hardware End Item Cost																			
Recurring Cost																			
Test Equipment	-	-	1.000	-	-	1.000	-	-	1.050	-	-	-	1.050	-	-	-	-	1.050	
<i>Subtotal: Recurring Cost</i>	-	-	1.000	-	-	1.000	-	-	1.050	-	-	1.050	-	-	1.050	-	-	1.050	
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	1.000	-	-	1.000	-	-	1.050	-	-	1.050	-	-	1.050	-	-	1.050	
Support - Support End Item Cost																			
Program Management Administration	-	-	3.896	-	-	21.501	-	-	41.800	-	-	-	1.974	-	-	8.708	-	-	10.682
Production Engineering Support	-	-	3.246	-	-	17.917	-	-	34.833	-	-	-	1.645	-	-	7.256	-	-	8.901
<i>Subtotal: Support - Support End Item Cost</i>	-	-	7.142	-	-	39.418	-	-	76.633	-	-	3.619	-	-	15.964	-	-	19.583	
Gross/Weapon System Cost	0.104	624	64.928	0.114	3,143	359.347	0.112	6,256	697.718	0.120	284	33.955	0.116	1,252	145.125	0.117	1,536	179.080	
(†) indicates the presence of a P-5a																			

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
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	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
AGM-114 - All-up-Rounds		2014	Lockheed Martin / Troy, AL	MIPR	Redstone Arsenal, AL	May 2014	May 2016	624	0.091	Y		Mar 2011
AGM-114 - All-up-Rounds ^(†)		2015	Lockheed Martin / Troy, AL	MIPR	Redstone Arsenal, AL	Sep 2015	Sep 2017	3,143	0.101	Y		
AGM-114 - All-up-Rounds ^(†)		2016	Lockheed Martin / Troy, AL	MIPR	Redstone Arsenal, AL	Sep 2016	Sep 2018	6,256	0.099	Y		
AGM-114 - All-up-Rounds ^(†)		2017	Lockheed Martin / Troy, AL	MIPR	Redstone Arsenal, AL	Sep 2017	Sep 2019	284	0.103	Y		
AGM-114 - All-up-Rounds ^(†)	✓	2017	Lockheed Martin / Troy, AL	MIPR	Redstone Arsenal, AL	Sep 2017	Sep 2019	1,252	0.103	Y		

(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																									
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 (Units in Each)					Fiscal Year 2014															Fiscal Year 2015																									
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014										Calendar Year 2015										B A L A N C E																			
AGM-114 - All-up-Rounds																																													
1	2015	AF	3,143	-	3,143																					A -										3,143									
1	2016	AF	6,256	-	6,256																					6,256																			
1	2017	AF	284	-	284																					284																			
1	2017	ARMY ^(‡)	155	-	155																					155																			
1	2017	Total Base	439	-	439																					439																			
✓	1	2017	AF	-	1,252																					1,252																			
✓	1	2017	ARMY ^(‡)	-	4,055																					4,055																			
✓	1	2017	Total OCO	-	5,307																					5,307																			

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																				
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 (Units in Each)							Fiscal Year 2016												Fiscal Year 2017																						
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	FY	Calendar Year 2016												Calendar Year 2017												B A L A N C E										
AGM-114 - All-up-Rounds																																									
1	2015	AF	3,143	-	3,143	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	262	2,881									
1	2016	AF	6,256	-	6,256														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,256							
1	2017	AF	284	-	284																													A -	284						
1	2017	ARMY ^(‡)	155	-	155																														A -	155					
1	2017	Total Base	439	-	439																															-	439				
✓	1	2017	AF	1,252	-	1,252																														A -	1,252				
✓	1	2017	ARMY ^(‡)	4,055	-	4,055																														A -	4,055				
✓	1	2017	Total OCO	5,307	-	5,307																														-	5,307				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P											

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																			
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 (Units in Each)							Fiscal Year 2018												Fiscal Year 2019																					
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												B A L A N C E										
						O C T	N O V	D E C	J A N	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	2015	AF	3,143	262	2,881	262	262	262	262	262	262	262	262	262	262	262	261																		-					
1	2016	AF	6,256	-	6,256	-	-	-	-	-	-	-	-	-	-	-	-	521	521	522	522	522	521	521	521	521	521	521	521	521	521	521	-							
1	2017	AF	284	-	284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	260						
1	2017	ARMY (‡)	155	-	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	142						
1	2017	Total Base	439	-	439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	402						
✓	1	2017	AF	1,252	-	1,252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105	1,147						
✓	1	2017	ARMY (‡)	4,055	-	4,055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	338	3,717						
✓	1	2017	Total OCO	5,307	-	5,307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	443	4,864						
							O C T	N O V	D E C	J A N	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 A N C E									

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

Date: February 2016

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 (Units in Each)							Fiscal Year 2020												Fiscal Year 2021												B A L A N C E
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	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		
						Calendar Year 2020												Calendar Year 2021													
AGM-114 - All-up-Rounds																															
1	2015	AF	3,143	3,143	-																										-
1	2016	AF	6,256	6,256	-																										-
1	2017	AF	284	24	260	24	24	24	24	24	24	24	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	-		
1	2017	ARMY (‡)	155	13	142	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	12	12	12	12	-		
1	2017	Total Base	439	37	402	37	37	37	37	37	37	37	37	37	36	36	36	36	36	36	36	36	36	36	35	35	35	35	-		
✓	1	2017	AF	1,252	105	1,147	105	105	105	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	-		
✓	1	2017	ARMY (‡)	4,055	338	3,717	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	338	337	337	337	337	-		
✓	1	2017	Total OCO	5,307	443	4,864	443	443	443	442	442	442	442	442	442	442	442	442	442	442	442	442	442	441	441	441	441	441	-		
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2017 Air Force									Date: February 2016			
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				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial			Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - Troy, AL	1,200	4,080	8,000	-	-	-	-	-	12	24	36

Remarks:

MSR consists of the sum of USAF, USN and approved FMS procurements for the year.

(†) 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 2017 Air Force								Date: February 2016																
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: N/A					Other Related Program Elements: 0207327F																
Line Item MDAP/MAIS Code: 439		Item MDAP/MAIS Code(s): N/A																						
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total												
Procurement Quantity (<i>Units in Each</i>)	12,300	443	1,977	312	4,195	4,507	460	300	900	2,160	7,474	30,521												
Gross/Weapon System Cost (<i>\$ in Millions</i>)	673.180	51.298	135.117	92.361	167.800	260.161	78.963	69.200	169.435	334.512	1,177.716	2,949.582												
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-												
Net Procurement (P-1) (<i>\$ in Millions</i>)	673.180	51.298	135.117	92.361	167.800	260.161	78.963	69.200	169.435	334.512	1,177.716	2,949.582												
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-												
Total Obligation Authority (<i>\$ in Millions</i>)	673.180	51.298	135.117	92.361	167.800	260.161	78.963	69.200	169.435	334.512	1,177.716	2,949.582												
<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>)	0.055	0.114	0.058	0.183	0.040	0.050	0.124	0.111	0.163	0.141	0.147	0.089												
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	0.055	0.116	0.068	0.296	0.040	0.058	0.172	0.231	0.188	0.155	0.158	0.097												
Description:																								
FY2015 funding totals include \$10.720M appropriated for Overseas Contingency Operations for SDB I.																								
FY2016 funding totals include \$2.52M 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 adverse 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 (WDL). 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, F/A-18 E/F, and AC-130. 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 is an events-driven program. SDB II completed a 42-month competitive Risk Reduction phase in October 2009 and entered the Milestone B Engineering and Manufacturing Development (EMD) phase in August 2010. A Fixed Price Incentive Firm EMD contract was awarded on 09 August 2010. The SDB II Program received Milestone C approval to enter Low Rate Initial Production (LRIP) on 4 June 2015 and exercised the Lot 1 production contract option on 12 June 2015. An updated Milestone C Acquisition Program Baseline is complete. A total of twelve successful Guided Test Vehicle (GTV) and Live Fire (LF) test missions have been executed to date. There are no significant software-related issues with the program at this time. A 28-shot Government Confidence Test program is scheduled to begin in FY2016. Required Assets Available (RAA) for the F-15E is to be completed by FY2018. 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. Department of the Navy first Lot (Lot 4) will support F/A-18E/F Initial Operational Capability.																								
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 only 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 and stationary targets; reduced munitions footprint; increased weapons effectiveness; minimized potential for collateral damage; reduced susceptibility of munitions to countermeasures; and standoff or Close Air Support (CAS) operational capability. Threshold aircraft is the F-15E. Objective aircraft include 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. Based																								

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
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: N/A	Other Related Program Elements: 0207327F
Line Item MDAP/MAIS Code: 439	Item MDAP/MAIS Code(s): N/A	
on an estimated per weapon price of \$40K, FY2016 funds will procure a minimum of 1,727 (Base - 1,664; OCO - 63) SDB I weapons and single weapon containers to support current combat operations and replenishment of SDB I weapons used in these operations. Containers will be procured for SDB I weapons.		
Note: ID Code A is applicable to SDB I only. Funding for this exhibit contained in PE 0207327F.		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016		
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: N/A					Other Related Program Elements: 0207327F		
Line Item MDAP/MAIS Code: 439		Item MDAP/MAIS Code(s): N/A							
Exhibit Type	Title*	Subexhibits	ID CD	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
P-5	Small Diameter Bomb	P-5a, P-21	A	12,300 / 673.180	443 / 51.298	1,977 / 135.117	312 / 92.361	4,195 / 167.800	4,507 / 260.161
P-40	Total Gross/Weapon System Cost			12,300 / 673.180	443 / 51.298	1,977 / 135.117	312 / 92.361	4,195 / 167.800	4,507 / 260.161
Exhibit Type	Title*	Subexhibits	ID CD	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
P-5	Small Diameter Bomb	P-5a, P-21	A	460 / 78.963	300 / 69.200	900 / 169.435	2,160 / 334.512	7,474 / 1,177.716	30,521 / 2,949.582
P-40	Total Gross/Weapon System Cost			460 / 78.963	300 / 69.200	900 / 169.435	2,160 / 334.512	7,474 / 1,177.716	30,521 / 2,949.582

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

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

Justification:

1. The FY2017 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, Tactical Weapon Conversion to Government Test Vehicles, and Practical Explosive Ordnance Disposal System Trainers. FY2017 funding supports the Lot 3 option which includes a contract option range between 312 and 468 SDB II weapons. The option must be exercised by 31 January 2017 to maintain pricing for Lots 4-5. The EMD contract contains options for Production Lots 1-5.
2. The FY2017 budget request includes funding for SDB1 weapons. This OCO funding will procure 4,195 weapons needed to replenish SDB 1 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 2017 Air Force											Date: February 2016						
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) : A											MDAP/MAIS Code:						
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total				
Procurement Quantity (<i>Units in Each</i>)		12,300	443	1,977	312	4,195	4,507	460	300	900	2,160	7,474	30,521				
Gross/Weapon System Cost (\$ in Millions)		673.180	51.298	135.117	92.361	167.800	260.161	78.963	69.200	169.435	334.512	1,177.716	2,949.582				
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-				
Net Procurement (P-1) (\$ in Millions)		673.180	51.298	135.117	92.361	167.800	260.161	78.963	69.200	169.435	334.512	1,177.716	2,949.582				
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-				
Total Obligation Authority (\$ in Millions)		673.180	51.298	135.117	92.361	167.800	260.161	78.963	69.200	169.435	334.512	1,177.716	2,949.582				
(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)		0.055	0.116	0.068	0.296	0.040	0.058	0.172	0.231	0.188	0.155	0.158	0.097				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																	
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO				
	Unit Cost (\$ M)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (<i>Each</i>)	Total Cost (\$ M)		
Flyaway - Flyaway End Item Cost																	
Recurring Cost																	
SDB Increment II All Up Round Weapon ^(t)	-	-	-	0.273	144	39.366	0.180	250	44.902	0.179	312	55.992	-	-	-		
Weapon Containers	-	-	-	-	-	0.560	-	-	0.977	-	-	1.130	-	-	-		
Engineering Change Orders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
SDB Increment I ^(t)	0.055	12,300	673.180	0.036	299	10.720	0.040	1,727	69.100	-	-	-	0.040	4,195	167.800		
<i>Subtotal: Recurring Cost</i>	-	-	673.180	-	-	50.646	-	-	114.979	-	-	57.122	-	-	167.800		
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	673.180	-	-	50.646	-	-	114.979	-	-	57.122	-	-	167.800		
Support - Support End Item Cost																	
Training Equipment	-	-	-	-	-	0.652	-	-	1.287	-	-	0.718	-	-	-		
Operational Flight Program Updates & Test	-	-	-	-	-	-	-	-	3.445	-	-	15.976	-	-	-		
Logistics Support	-	-	-	-	-	-	-	-	0.091	-	-	0.207	-	-	-		
Production Testing	-	-	-	-	-	-	-	-	12.832	-	-	16.149	-	-	-		
PMA Contractor Services	-	-	-	-	-	-	-	-	1.546	-	-	1.304	-	-	-		
PMA Other Government Costs	-	-	-	-	-	-	-	-	0.937	-	-	0.885	-	-	-		
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.652	-	-	20.138	-	-	35.239	-	-	35.239		

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016																					
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) : A													MDAP/MAIS Code:																					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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	0.055	12,300	673.180	0.116	443	51.298	0.068	1,977	135.117	0.296	312	92.361	0.040	4,195	167.800	0.058	4,507	260.161																
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 ^(†)	0.122	460	55.985	0.108	300	32.514	0.160	900	143.741	0.137	2,160	296.955	0.144	7,474	1,074.282	0.145	12,000	1,743.737																
Weapon Containers	-	-	1.219	-	-	0.867	-	-	2.889	-	-	7.029	-	-	25.965	-	-	40.636																
Engineering Change Orders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																	
SDB Increment I ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.050	18,521	920.800																	
<i>Subtotal: Recurring Cost</i>	-	-	57.204	-	-	33.381	-	-	146.630	-	-	303.984	-	-	1,100.247	-	-	2,705.173																
<i>Subtotal: Flyaway - Flyaway End Item Cost</i>	-	-	57.204	-	-	33.381	-	-	146.630	-	-	303.984	-	-	1,100.247	-	-	2,705.173																
Support - Support End Item Cost																																		
Training Equipment	-	-	0.258	-	-	0.088	-	-	-	-	-	-	-	-	-	-	-	3.003																
Operational Flight Program Updates & Test	-	-	2.709	-	-	12.999	-	-	2.920	-	-	13.520	-	-	32.680	-	-	84.249																
Logistics Support	-	-	0.133	-	-	0.171	-	-	0.201	-	-	0.140	-	-	0.642	-	-	1.585																
Production Testing	-	-	16.695	-	-	20.610	-	-	17.659	-	-	14.793	-	-	37.546	-	-	136.284																
PMA Contractor Services	-	-	1.116	-	-	1.145	-	-	1.193	-	-	1.227	-	-	3.127	-	-	10.658																
PMA Other Government Costs	-	-	0.848	-	-	0.806	-	-	0.832	-	-	0.848	-	-	3.474	-	-	8.630																
<i>Subtotal: Support - Support End Item Cost</i>	-	-	21.759	-	-	35.819	-	-	22.805	-	-	30.528	-	-	77.469	-	-	244.409																
Gross/Weapon System Cost	0.172	460	78.963	0.231	300	69.200	0.188	900	169.435	0.155	2,160	334.512	0.158	7,474	1,177.716	0.097	30,521	2,949.582																
Remarks:																																		
SDB I FY2015 OCO funding replenishes SDB I weapons.																																		
(†) indicates the presence of a P-5a																																		

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
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	Jun 2015	Dec 2016	144	0.273	Y		Oct 2009
SDB Increment II All Up Round Weapon ^(†)		2016	Raytheon / Tucson AZ	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Mar 2016	Sep 2017	250	0.180	Y		Oct 2009
SDB Increment II All Up Round Weapon ^(†)		2017	Raytheon / Tucson AZ	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Oct 2016	Apr 2018	312	0.179	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	0.122	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	0.108	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	0.160	N	Aug 2020	Oct 2018
SDB Increment II All Up Round Weapon ^(†)		2021	Raytheon / Tucson AZ	Various	AFLCMC/PK Eglin AFB, FL	Oct 2020	Apr 2022	2,160	0.137	N	Aug 2021	Oct 2019
SDB Increment I ^(†)		2015	Boeing / St Louis MO	SS / FFP	AFLCMC/PK Eglin AFB, FL	Aug 2015	Jun 2016	299	0.036	Y		Jan 2015
SDB Increment I ^(†)		2016	Boeing / St Louis MO	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Sep 2016	Dec 2017	1,727	0.040	Y		Jan 2016
SDB Increment I ^(†)	✓	2017	Boeing / St Louis MO	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Sep 2017	Dec 2018	4,195	0.040	Y		Jan 2017

^(†) indicates the presence of a P-21

Remarks:

1. SDB II Lots 1-5 are options on the current EMD contract with Raytheon Missile System, Tucson, AZ which were competitively awarded in August 2010. SDB II specifications for Lot 1-5 are defined in the EMD contract.
2. SDB II Lots 1-3 (FY2015-FY2017) are Fixed Price Incentive Firm Target options.
3. Lot 1 was awarded on 12 June 2015.
4. 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 Lot 3 period of performance based on the certified cost or pricing data proposals.
5. ID Code A is applicable only to SDB I.
6. SDB I Prior Years procurement is 12,300.

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

Date: February 2016

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 (Units in Each)							Fiscal Year 2015												Fiscal Year 2016												B A L A N C E
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	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		
						Calendar Year 2015												Calendar Year 2016													
SDB Increment II All Up Round Weapon																															
1	2015	AF	144	-	144																										144
1	2016	AF	250	-	250																										250
1	2017	AF	312	-	312																										312
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
1	2021	AF	2,160	-	2,160																										2,160
1	2021	NAVY ^(‡)	750	-	750																										750
1	2021	Total	2,910	-	2,910																										2,910
SDB Increment I																															
Prior Years Deliveries: 12300																															
2	2015	AF	299	-	299																										199
2	2016	AF	1,727	-	1,727																										1,727
✓	2017	AF	4,195	-	4,195																										4,195
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																	
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 (Units in Each)						Fiscal Year 2017												Fiscal Year 2018																				
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	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 A N C E								
SDB Increment II All Up Round Weapon																																						
1	2015	AF	144	-	144	-	-	50	-	-	40	-	-	-	54																				-			
1	2016	AF	250	-	250	-	-	-	-	-	-	-	-	-	-	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	-						
1	2017	AF	312	-	312	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	156					
1	2018	AF	460	-	460											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	460				
1	2018	NAVY ^(‡)	90	-	90											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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
1	2021	AF	2,160	-	2,160																																	2,160
1	2021	NAVY ^(‡)	750	-	750																																	750
1	2021	Total	2,910	-	2,910																																	2,910
SDB Increment I																																						
Prior Years Deliveries: 12300																																						
2	2015	AF	299	100	199	25	25	25	25	25	25	25	25	25	24																				-			
2	2016	AF	1,727	-	1,727	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	267				
✓	2017	AF	4,195	-	4,195											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,195			
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P									

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																																																				
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 (Units in Each)							Fiscal Year 2019												Fiscal Year 2020																																																					
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	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 A N C E																																										
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	-	-	-	-	-	-																																																													
1	2018	NAVY ^(‡)	90	-	90	-	-	-	-	-	-																																																													
1	2018	Total	550	-	550	-	-	-	-	-	-																																																													
1	2019	AF	300	-	300	A -	-	-	-	-	-																																																													
1	2019	NAVY ^(‡)	750	-	750	A -	-	-	-	-	-																																																													
1	2019	Total	1,050	-	1,050	-	-	-	-	-	-																																																													
1	2020	AF	900	-	900																																																																			
1	2020	NAVY ^(‡)	750	-	750																																																																			
1	2020	Total	1,650	-	1,650																																																																			
1	2021	AF	2,160	-	2,160																																																																			
1	2021	NAVY ^(‡)	750	-	750																																																																			
1	2021	Total	2,910	-	2,910																																																																			
SDB Increment I																																																																								
Prior Years Deliveries: 12300																																																																								
2	2015	AF	299	299	-																																																																			
2	2016	AF	1,727	1,460	267	146	121																																																																	
✓	2	2017	AF	4,195	-	4,195	-	-	350	350	350	350	350	350	350	350	350	350	350	350	350	345	O C T	N O V	D E C	J A N	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 A N C E																									

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																				
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 (Units in Each)							Fiscal Year 2021												Fiscal Year 2022																					
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	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 A N C E										
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	150	150	25	25	25	25	25	25																								-					
1	2019	NAVY ^(‡)	750	372	378	63	63	63	63	63	63																								-					
1	2019	Total	1,050	522	528	88	88	88	88	88	88													-																
1	2020	AF	900	-	900	-	-	-	-	-	-	75	75	75	75	75	75	75	75	75	75	75	75	75												-				
1	2020	NAVY ^(‡)	750	-	750	-	-	-	-	-	-	63	63	63	63	63	63	63	62	62	62	62	62	62	-															
1	2020	Total	1,650	-	1,650	-	-	-	-	-	-	138	138	138	138	138	138	138	137	137	137	137	137	137	-															
1	2021	AF	2,160	-	2,160	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180	180	180	180	180	180	1,080								
1	2021	NAVY ^(‡)	750	-	750	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	63	63	63	63	63	372								
1	2021	Total	2,910	-	2,910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	243	243	243	243	243	243	1,452								
SDB Increment I																																								
Prior Years Deliveries: 12300																																								
2	2015	AF	299	299	-																																			-
2	2016	AF	1,727	1,727	-																								-											
✓	2017	AF	4,195	4,195	-																								-											
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																	

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Exhibit P-21, Production Schedule: PB 2017 Air Force																			Date: February 2016												
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 (Units in Each)							Fiscal Year 2023												Fiscal Year 2024												
O C R O #	M F R Y	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 A N C E	
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	-																										-
1	2021	AF	2,160	1,080	1,080	180	180	180	180	180	180																			-	
1	2021	NAVY ^(‡)	750	378	372	62	62	62	62	62	62	62																		-	
1	2021	Total	2,910	1,458	1,452	242	242	242	242	242	242	242																		-	
SDB Increment I																															
Prior Years Deliveries: 12300																															
2	2015	AF	299	299	-																										-
2	2016	AF	1,727	1,727	-																										-
✓	2017	AF	4,195	4,195	-																										-
O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P								

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Exhibit P-21, Production Schedule: PB 2017 Air Force Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2									Date: February 2016			
P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb									Item Number / Title [DODIC]: - / Small Diameter Bomb			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial			Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Raytheon - Tucson AZ	200	300	1,000	-	-	-	-	-	1	18	19
2	Boeing - St Louis MO	1,000	2,000	5,000	-	-	-	-	-	12	15	27

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.

Early shipments for Lot 1, Small Diameter Bomb Increment II, are authorized. Per the contract, 50 units must be delivered by December 12, 2016. An additional 40 units must be delivered by March 13, 2017. The final delivery of 54 units must be delivered by June 12, 2017.

(†) 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 2017 Air Force										Date: February 2016							
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: N/A						Other Related Program Elements: N/A								
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A															
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total					
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (\$ in Millions)	0.752	0.749	0.397	0.977	-	0.977	0.924	0.794	0.807	0.822	-	6.222					
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P-1) (\$ in Millions)	0.752	0.749	0.397	0.977	-	0.977	0.924	0.794	0.807	0.822	-	6.222					
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)	0.752	0.749	0.397	0.977	-	0.977	0.924	0.794	0.807	0.822	-	6.222					
<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).																	
Funding for this exhibit is contained in PE 78011F																	

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016																																							
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: N/A			Other Related Program Elements: N/A																																									
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A																																												
<table border="1"> <thead> <tr> <th colspan="3">Exhibits Schedule</th> <th colspan="2">Prior Years</th> <th>FY 2015</th> <th>FY 2016</th> <th>FY 2017 Base</th> <th>FY 2017 OCO</th> <th>FY 2017 Total</th> </tr> <tr> <th>Exhibit Type</th> <th>Title*</th> <th>Subexhibits</th> <th>ID CD</th> <th>Quantity / Total Cost (Each) / (\$ M)</th> </tr> </thead> <tbody> <tr> <td>P-40a</td> <td>Industr'l Preparedns/Pol Prevention</td> <td></td> <td></td> <td>- / 0.752</td> <td>- / 0.749</td> <td>- / 0.397</td> <td>- / 0.977</td> <td>- / -</td> <td>- / 0.977</td> </tr> <tr> <td>P-40</td> <td>Total Gross/Weapon System Cost</td> <td></td> <td></td> <td>- / 0.752</td> <td>- / 0.749</td> <td>- / 0.397</td> <td>- / 0.977</td> <td>- / -</td> <td>- / 0.977</td> </tr> </tbody> </table>							Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Exhibit Type	Title*	Subexhibits	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)	P-40a	Industr'l Preparedns/Pol Prevention			- / 0.752	- / 0.749	- / 0.397	- / 0.977	- / -	- / 0.977	P-40	Total Gross/Weapon System Cost			- / 0.752	- / 0.749	- / 0.397	- / 0.977	- / -	- / 0.977
Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total																																					
Exhibit Type	Title*	Subexhibits	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)																																					
P-40a	Industr'l Preparedns/Pol Prevention			- / 0.752	- / 0.749	- / 0.397	- / 0.977	- / -	- / 0.977																																					
P-40	Total Gross/Weapon System Cost			- / 0.752	- / 0.749	- / 0.397	- / 0.977	- / -	- / 0.977																																					
<p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>																																														

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2017 Air Force														Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 5					P-1 Line Item Number / Title: 42 / Industr'l Preparedns/Pol Prevention								Aggregated Items Title: Industr'l Preparedns/Pol Prevention					
Item Number / Title [DODIC]	ID CD	MDAP/ MAIS Code	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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		-	-	0.000	-	-	0.510	-	-	0.155	-	-	0.531	-	-	-	0.531
Environmental Compliance (MPC 7000)	A		-	-	0.752	-	-	0.239	-	-	0.242	-	-	0.246	-	-	-	0.246
Capital Rehabilitation (CTR) (MPC 3000)	A		-	-	0.000	-	-	-	-	-	-	-	-	0.200	-	-	-	0.200
Subtotal: Uncategorized			-	-	0.752	-	-	0.749	-	-	0.397	-	-	0.977	-	-	-	0.977
Total			-	-	0.752	-	-	0.749	-	-	0.397	-	-	0.977	-	-	-	0.977

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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV										P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD			
ID Code (A=Service Ready, B=Not Service Ready): B				Program Elements for Code B Items: 0604933F							Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: 498		Item MDAP/MAIS Code(s): N/A											
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	-	-	-	17.095	-	17.095	6.321	9.841	12.094	34.145	731.963	811.459	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Net Procurement (P-1) (\$ in Millions)	-	-	-	17.095	-	17.095	6.321	9.841	12.094	34.145	731.963	811.459	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	-	-	-	17.095	-	17.095	6.321	9.841	12.094	34.145	731.963	811.459	
<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: Funding for this mod in FY15 (\$4.7M) and FY16 (\$13.7M) was in PE0101213F, M30MLG, MM III Modifications.													
The ICBM Fuze Modernization program will replace the current Mk21/W87 fuze to meet warfighter requirements to support both Minuteman III (MM III) and Ground Based Strategic Deterrent (GBSD). The new fuze will be a form, fit, and functionally equivalent replacement for the legacy Mk21/W87 and will provide a 30-year design life. The program will support the current force of 400 deployed and 50 non-deployed ICBMs.													
The program will provide needed MM III weapon system modifications, system testing, support equipment, data and training required to accommodate, field, and support the new Mk21 fuze along with the W87 warhead as defined in the AFGSC Requirements Traceability Memo dated 2 December 2013. Current Mk21/W87 fuze quantities available do not meet United States Strategic Command (USSTRATCOM) requirements and the legacy fuze is three times beyond its original ten year design life. A replacement Mk21/W87 fuze is urgently required to meet warfighter requirements and to ensure operational capability. ICBM Fuze Modernization will procure 693 Mk21/W87 replacement fuzes. Fuzes will be delivered and placed in supply for installation by organizational/intermediate maintenance on a schedule to be determined by USSTRATCOM and Air Force Global Strike Command.													
Life of Program Buy The ICBM Fuze Modernization program will continue acquiring Life-of-Program Buys (LOPB) materials and components through FY19 to support both the Mk21/W87 and future W78-1 Life Extension Program (LEP). The W78-1 LEP will utilize the same replacement fuze being developed by the ICBM Fuze Modernization program. Executing LOPB for W78-1 LEP ensures this future program can fully leverage the material design, component design, and nuclear certification and qualification activities.													

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV				P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD					
ID Code (A=Service Ready, B=Not Service Ready): B		Program Elements for Code B Items: 0604933F					Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: 498		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-3a	5915 / ICBM Fuze Modernization (Service Life Extension)			- / 0.000	- / -	- / -	- / 17.095	- / -	- / 17.095
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / 17.095	- / -	- / 17.095
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	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)
P-3a	5915 / ICBM Fuze Modernization (Service Life Extension)			- / 6.321	- / 9.841	- / 12.094	- / 34.145	- / 731.963	- / 811.459
P-40	Total Gross/Weapon System Cost			- / 6.321	- / 9.841	- / 12.094	- / 34.145	- / 731.963	- / 811.459

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

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

Justification:

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force									Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD						Modification Number / Title: 5915 / ICBM Fuze Modernization			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	-	-	17.095	-	17.095	6.321	9.841	12.094	34.145	731.963	811.459
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	-	-	17.095	-	17.095	6.321	9.841	12.094	34.145	731.963	811.459
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	-	-	17.095	-	17.095	6.321	9.841	12.094	34.145	731.963	811.459
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	8.600	8.600
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY15-19 non-recurring costs include Life-of-Program Buys (LOPB) 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. LOPB will be executed jointly with the Navy to provide a pool of interchangeable, qualified, and certified parts for each service's fuze. Procured parts will be delivered to the National Nuclear Security Administration (NNSA), National Security Campus (NSC) in Kansas City for use in producing common components modules for the Air Force and Navy fuzes. Some component modules will be entirely interchangeable between the Services while others will have interchangeable subassemblies.

Program Overview

The ICBM Fuze Modernization program will replace the current Mk21/W87 fuze to meet warfighter requirements to support both Minuteman III (MM III) and Ground Based Strategic Deterrent (GBSD). The new fuze will be a form, fit, and functionally equivalent replacement for the legacy Mk21/W87 fuze and will provide a 30-year design life.

The program will provide needed MM III weapon system modifications, system testing, support equipment, data and training required to accommodate, field, and support the new Mk21 fuze with the W87 warhead as defined in the AFGSC Requirements Traceability Memo dated 2 December 2013. Current Mk21/W87 fuze quantities available do not meet United States Strategic Command (USSTRATCOM) requirements and the legacy fuze is three times beyond its original ten year design life. A replacement Mk21/W87 fuze is urgently required to meet warfighter requirements and to ensure operational capability. ICBM Fuze Modernization will procure 693 Mk21/W87 replacement fuzes. Fuzes will be delivered and placed in supply for installation by organizational/intermediate maintenance on a schedule to be determined by USSTRATCOM and Air Force Global Strike Command.

Life of Program Buy

The ICBM Fuze Modernization program will continue acquiring LOPB materials and components through FY19 to leverage USN component qualification efforts and will support the Mk21/W87 and future W78-1 Life Extension Program (LEP). The W78-1 LEP will utilize the same replacement fuze being developed by the ICBM Fuze Modernization program. Executing LOPB for W78-1 LEP ensures this future program can fully leverage the material design, component design, and nuclear certification and qualification activities.

Milestone/Development Status

The program entered Phase 6.3 Developmental Engineering in FY13 and will complete in FY19. The first flight test will be performed in FY19. The follow-on Phase 6.4 Production Engineering will complete development in FY22. The program will enter Phase 6.5 First Production in FY22. Research, Development, Test and Evaluation (RDT&E) is contained in Program Element 0604933F. The program is tailored to use the joint Department of Defense (DoD)-Department of Energy (DOE) Phase 6.X processes for routine nuclear stockpile activities to align with Navy and NNSA operations.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD							Modification Number / Title: 5915 / ICBM Fuze Modernization			
Models of Systems Affected: LGM-30G			Modification Type: Service Life Extension					Related RDT&E PEs: 0604933F					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	- / 197.202	3 / 57.893	12 / 142.551	10 / 189.751	- / -	10 / 189.751	7 / 178.475	16 / 168.035	24 / 157.738	16 / 123.617	- / 30.858	88 / 1,246.120	
Procurement													
Modification Item 1 of 1: ICBM Fuze													
B Kits													
Recurring													
ICBM Fuze:EQUIPMENT Group B (Active)													
Subtotal: Recurring													
Subtotal: ICBM Fuze													
Subtotal: Procurement, All Modification Items													
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING													
Change Orders													
SIM/TRAINER													
OTHER GOVT													
PMA - Other Gov't Costs													
Subtotal: Support													
Installation													
Subtotal: Installation													
Total													
Total Cost (Procurement + Support + Installation)	0.000	-	-	17.095	-	17.095	6.321	9.841	12.094	34.145	731.963	811.459	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force						Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1		P-1 Line Item Number / Title: M30FLH / ICBM FUZE MOD				Modification Number / Title: 5915 / ICBM Fuze Modernization				
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>): 31							
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021			
Contract Dates						Feb 2020	Feb 2021			
Delivery Dates						Sep 2022	Sep 2023			
Installation Information										
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 693					

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016					
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): B			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): N/A													
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total		
Procurement Quantity (<i>Units in Each</i>)		-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Cost (\$ in Millions)		73.057	28.422	50.273	68.692	-	68.692	97.801	84.057	59.151	72.098	-	533.551		
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-		
Net Procurement (P-1) (\$ in Millions)		73.057	28.422	50.273	68.692	-	68.692	97.801	84.057	59.151	72.098	-	533.551		
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-		
Total Obligation Authority (\$ in Millions)		73.057	28.422	50.273	68.692	-	68.692	97.801	84.057	59.151	72.098	-	533.551		
(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:															
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 FY17 is to support the operational capability of the Minuteman ICBM through 2030.															
The modifications being performed on LGM-30 include: Minuteman Minimum Essential Emergency Communications Network (MEECN) modification, LGM-30G Cadmium Replacement Support Equipment Program (CaDRP), LGM-30G ICBM Fuze Modernization (Fuze), LGM-30G ICBM Cryptography Upgrade II (ICU II), LGM-30G Launch Control Center Block Upgrade (LCCBU), LGM-30G Launch Control Center Break-In-Kit (LCCB), LGM-30G Flight Test Telemetry and Termination System (FT3), LGM-30G Remote Visual Assessment Phase II (RVA II), LGM-30G T-9 Launch Facility Trainer Conversion (T-9). ICU II, CaDRP, and LCCB production are new start programs in FY17.															
The FY17 funding request was reduced by \$14.804 million to account for the availability of prior year execution balances.															
Funding for modifications other than MEECN is contained in PE 0101213F (PE 0604851F prior to FY15); MEECN is contained in PE 0303131F.															
Secondary Distribution			FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021				
AF	Quantity		-	-	-	-	-	-	-	-	-	-			
	Total Obligation Authority		28.422	50.273	68.692	-	68.692	97.801	84.057	59.151	72.098				
AFNG	Quantity		-	-	-	-	-	-	-	-	-	-			
	Total Obligation Authority		-	-	-	-	-	-	-	-	-	-			
Total: Secondary Distribution	Quantity		-	-	-	-	-	-	-	-	-	-			
	Total Obligation Authority		28.422	50.273	68.692	-	68.692	97.801	84.057	59.151	72.098				

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016		
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): B		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): N/A							
Exhibit Type	Title*	Subexhibits	ID CD	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-40a***	5747 / LGM-30G Maintenance Trainer Modification (Other)			- / -	- / 12.003	- / -	- / -	- / -	- / -
P-40a***	5921 / MM LCC Block Upgrades (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	5925 / MM III Auto Switching Unit (ASU) (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	5927 / Airborne Launch Control System Replacement Increment I (Other)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	5928 / T-9 Launch Facility Trainer Conversion (T-9) (Other)			- / -	- / -	- / 17.687	- / 0.791	- / -	- / 0.791
P-40a***	5929 / LGM-30G Control Monitor Procedure Trainer Upgrade (CMPT) (Other)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	5930 / LGM-30G Fast Rising B-Plug Phase II (FRBP II) (Other)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	5931 / LGM-30G Cadmium Replacement Support Equipment (CaDRP) (Other)			- / -	- / -	- / -	- / 1.003	- / -	- / 1.003
P-40a***	5932 / LGM-30G Remote Visual Assessment Phase II (RVA II) (Other)			- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	5942 / LGM-30G Launch Control Center Break-In-Kit (LCCB) (Other)			- / -	- / -	- / -	- / 1.024	- / -	- / 1.024
P-40a***	5943 / ICBM Fuze Modernization (Service Life Extension)			- / -	- / 4.649	- / 13.700	- / -	- / -	- / -
P-40a***	99999X / Low Cost Modifications (Other)			- / -	- / -	- / 11.197	- / 3.750	- / -	- / 3.750
P-3a	5910 / MINUTEMAN MEECN MODIFICATION (Capability Improvement)			- / 73.057	- / 11.770	- / -	- / 9.621	- / -	- / 9.621
P-3a	5916 / ICBM Cryptography Upgrade Increment II (Capability Improvement)			- / -	- / -	- / -	- / 30.636	- / -	- / 30.636
P-3a	5934 / LGM-30G Flight Test Telemetry and Termination System (FT3) (Other)			- / -	- / -	- / 7.689	- / 21.867	- / -	- / 21.867
P-40	Total Gross/Weapon System Cost			- / 73.057	- / 28.422	- / 50.273	- / 68.692	- / -	- / 68.692
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	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)
P-40a***	5747 / LGM-30G Maintenance Trainer Modification (Other)			- / -	- / -	- / -	- / -	- / -	- / 12.003
P-40a***	5921 / MM LCC Block Upgrades (Service Life Extension)			- / 16.004	- / 28.187	- / -	- / -	- / -	- / 44.191
P-40a***	5925 / MM III Auto Switching Unit (ASU) (Service Life Extension)			- / -	- / 11.455	- / 11.965	- / 12.218	- / -	- / 35.638
P-40a***	5927 / Airborne Launch Control System Replacement Increment I (Other)			- / -	- / -	- / 20.038	- / 53.265	- / -	- / 73.303
P-40a***	5928 / T-9 Launch Facility Trainer Conversion (T-9) (Other)			- / 6.024	- / 0.483	- / -	- / -	- / -	- / 24.985
P-40a***	5929 / LGM-30G Control Monitor Procedure Trainer Upgrade (CMPT) (Other)			- / -	- / -	- / 0.526	- / -	- / -	- / 0.526
P-40a***	5930 / LGM-30G Fast Rising B-Plug Phase II (FRBP II) (Other)			- / 0.340	- / 5.731	- / 10.800	- / 6.440	- / -	- / 23.311
P-40a***	5931 / LGM-30G Cadmium Replacement Support Equipment (CaDRP) (Other)			- / 1.930	- / -	- / -	- / -	- / -	- / 2.933
P-40a***	5932 / LGM-30G Remote Visual Assessment Phase II (RVA II) (Other)			- / 16.363	- / 12.056	- / 10.730	- / -	- / -	- / 39.149
P-40a***	5942 / LGM-30G Launch Control Center Break-In-Kit (LCCB) (Other)			- / 0.274	- / -	- / -	- / -	- / -	- / 1.298

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016		
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): B		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): N/A							
Exhibit Type	Title*	Subexhibits	ID CD	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
				Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a***	5943 / ICBM Fuze Modernization (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / 18.349
P-40a***	99999X / Low Cost Modifications (Other)			- / 3.807	- / 2.000	- / 2.000	- / -	- / -	- / 22.754
P-3a	5910 / MINUTEMAN MEECN MODIFICATION (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 94.448
P-3a	5916 / ICBM Cryptography Upgrade Increment II (Capability Improvement)			- / 32.036	- / 24.093	- / 3.039	- / 0.175	- / -	- / 89.979
P-3a	5934 / LGM-30G Flight Test Telemetry and Termination System (FT3) (Other)			- / 21.023	- / 0.052	- / 0.053	- / -	- / -	- / 50.684
P-40	Total Gross/Weapon System Cost			- / 97.801	- / 84.057	- / 59.151	- / 72.098	- / -	- / 533.551

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

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

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

Justification:

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30MLG / MM III Modifications							Modification Number / Title: 5910 / MINUTEMAN MEECN MODIFICATION		
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	73.057	11.770	-	9.621	-	9.621	-	-	-	-	-	94.448
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	73.057	11.770	-	9.621	-	9.621	-	-	-	-	-	94.448
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	73.057	11.770	-	9.621	-	9.621	-	-	-	-	-	94.448
(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)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Minuteman Minimum Essential Emergency Communications Network (MEECN) Program Upgrade (MMPU) modernizes existing Minuteman Intercontinental Ballistic Missile (ICBM) Launch Control Center (LCC) Extremely High Frequency (EHF) communications to provide an Advanced EHF (AEHF) capability and a capability for Missile Combat Crew Members to have operator control of the terminal in the LCC to switch between satellites. This upgrade is compatible with AEHF satellite and the supporting key management infrastructure (Crypto Interoperability). AEHF is an Extended Data Rate (XDR) waveform that provides more secure transmit/receive at high data rate frequencies than the lower data rate frequencies currently used on MILSTAR satellites. The AEHF terminal will provide both receive and report-back capability. These modifications comply with USSTRATCOM requirements for strategic terminals to communicate at higher data rates. MMPU includes upgrades to 45 missile wing LCCs and 1 test LCC at Vandenberg AFB, CA; 3 Organizational Maintenance System (OMS) terminals; and 1 test terminal at Hill AFB, UT Space Missile Integration Complex (SMIC). The program also includes modifications to the Missile Procedures Trainers (MPT) and regression testing of fielded systems with AEHF and MILSTAR satellite and supporting infrastructure. Seven (7) MMP Upgrade terminals were procured for RDT&E purposes and will be installed at test and sustainment facilities to support MMPU systems. These seven MMPU terminals do not require Install Kits. Initial Operational Capability (IOC) is planned for 2Q/FY17 and Required Asset Availability (RAA) is planned for 3Q/FY18.

Milestone/Development Status

Minuteman MEECN Program Upgrade (MMPU) entered Engineering and Manufacturing Development (EMD) 15 January 2008. Production and Deployment phase began 27 December 2011. Force Development Evaluation (FDE) was completed on 7 February 2015. A provisional fielding decision was received on 25 September 2015.

FY16 and FY17 installs paid with prior year funding.

Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.770	-	9.621	-	9.621	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.770	-	9.621	-	9.621	-	-	-

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30MLG / MM III Modifications										Modification Number / Title: 5910 / MINUTEMAN MEECN MODIFICATION	
Models of Systems Affected: LGM-30G			Modification Type: Capability Improvement				Related RDT&E PEs: 0303131F							
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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: HAC/RMPE & TEU/TOC</i>														
A Kits														
Recurring														
HAC/RMPE & TEU/TOC:INSTALL KITS Group A (Active)	50 / 4.761	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 4.761	
HAC/RMPE & TEU/TOC:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 4.761	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.761	
B Kits														
Recurring														
HAC/RMPE & TEU/TOC:EQUIPMENT Group B (Active)	50 / 18.621	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 18.621	
<i>Subtotal: Recurring</i>	- / 18.621	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.621	
<i>Subtotal: HAC/RMPE & TEU/TOC</i>	- / 23.382	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.382	
<i>Subtotal: Procurement, All Modification Items</i>	- / 23.382	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.382	
Support (All Modification Items)														
GROUP A: TOTAL NONRECURRING	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
GROUP B: TOTAL NONRECURRING	- / 5.640	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.640	
SIM/TRAINER	0 / 5.132	- / 0.670	- / -	- / 1.025	- / -	- / 1.025	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.827	
SUPPORT-EQUIP	- / 6.180	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.180	
ICS-Labor	- / 6.556	- / 5.803	- / -	- / 14.243	- / -	- / 14.243	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.602	
ICS-Material	- / 3.782	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.782	
OTHER GOVT	- / 1.607	- / 0.744	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.351	
PMA - Contractor Services	- / 7.667	- / 3.519	- / -	- / 14.006	- / -	- / 14.006	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.192	
Mod of Spares	- / 4.164	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.164	
<i>Subtotal: Support</i>	0 / 40.728	- / 10.736	- / -	- / 9.274	- / -	- / 9.274	- / -	- / -	- / -	- / -	- / -	- / -	- / 60.738	
Installation														
<i>Modification Item 1 of 1: HAC/RMPE & TEU/TOC</i>	0 / 8.947	- / 1.034	5 / -	29 / 0.347	- / -	29 / 0.347	16 / -	- / -	- / -	- / -	- / -	- / -	50 / 10.328	
<i>Subtotal: Installation</i>	0 / 8.947	- / 1.034	5 / -	29 / 0.347	- / -	29 / 0.347	16 / -	- / -	- / -	- / -	- / -	- / -	50 / 10.328	
Total														
Total Cost (Procurement + Support + Installation)	73.057	11.770	-	9.621	-	9.621	-	-	-	-	-	-	94.448	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force														Date: February 2016																	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: M30MLG / MM III Modifications										Modification Number / Title: 5910 / MINUTEMAN MEECN MODIFICATION																	
Modification Item 1 of 1: HAC/RMPE & TEU/TOC																															
Manufacturer Information																															
Manufacturer Name: Raytheon							Manufacturer Location: Largo, FL																								
Administrative Leadtime (in Months): 3							Production Leadtime (in Months): 14																								
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021																								
Contract Dates																															
Delivery Dates																															
Installation Information																															
Method of Implementation: Contract Field Team																															
Installation Cost			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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)	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			0 / 8.947	- / 1.034	5 / 0.000	29 / 0.347	- / -	29 / 0.347	16 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 10.328														
FY 2015			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2016			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2017			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2018			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2019			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2020			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2021			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
To Complete			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
Total			0 / 8.947	- / 1.034	5 / -	29 / 0.347	- / -	29 / 0.347	16 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 10.328														
Installation Schedule																															
PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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							
In	0	-	-	-	-	-	-	1	4	6	7	8	8	8	-	-	-	-	-	-	-	-	-	-	50						
Out	0	-	-	-	-	-	-	1	4	6	7	8	8	8	-	-	-	-	-	-	-	-	-	-	50						

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30MLG / MM III Modifications							Modification Number / Title: 5916 / ICBM Cryptography Upgrade Increment II		
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	30.636	-	30.636	32.036	24.093	3.039	0.175	-	89.979
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	30.636	-	30.636	32.036	24.093	3.039	0.175	-	89.979
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	30.636	-	30.636	32.036	24.093	3.039	0.175	-	89.979
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	2.367	-	2.367	5.671	-	0.024	-	-	8.062
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program, P-3A Mod 5916, ICBM Cryptography Upgrade Increment II, is a new start.

LGM-30G MM Crypto Mods / ICBM Cryptography Upgrade II (ICU II) procures and fields upgraded A4 Drawers that implement KS-60 remote key/code change, irreversible transformation and continuous signal lockout capabilities that increases code security and prevents widespread loss of status monitoring. Cryptography modifications will increase security during code changes by reducing the frequency of open sites 75 days annually while reducing associated labor costs.

A4 Drawer replacements will be performed by contractor installation team.

Previously reported quantity required of 506 included initial spares. 457 A4 Drawer modification kits are required to support the Launch Facilities (with 49 low rate initial production units). 49 A4 Drawer initial spares have been broken out separately in the appropriate funding account.

FY17-18 also include test support equipment required for operational units and the depot repair facility to perform fault isolation, component replacement, and functional testing.

Milestone/Development Status

ICU II Engineering & Manufacturing Development has been ongoing since FY13. In FY16, ICU II was restructured to address an emerging supply chain requirement. ICU II testing with the initial integrated circuit solution (Field Programmable Gate Array - FPGA) has been completed and identified several issues requiring additional development. Testing with the follow-on integrated circuit solution (Application Specific Integrated Circuit - ASIC) and the Milestone C have been delayed.

Key development activities include:

- ICU II PDR (Mar 2013)
- ICU II CDR (Mar 2014)
- ICU II TRR - FPGA (Nov 2014)
- ICU II TRR - ASIC (Nov 2016)
- ICU II Milestone C (Jul 2017)

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30MLG / MM III Modifications					Modification Number / Title: 5916 / ICBM Cryptography Upgrade Increment II	
Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	30.636	-	30.636	32.036	24.093	3.039
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	30.636	-	30.636	32.036	24.093	3.039

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M30MLG / MM III Modifications										Modification Number / Title: 5916 / ICBM Cryptography Upgrade Increment II
Models of Systems Affected: LGM-30G			Modification Type: Capability Improvement				Related RDT&E PEs: 0101213F						
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	- / -	12 / 39.589	- / 32.845	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 72.434
Procurement													
Modification Item 1 of 1: A4 Drawer Mod													
B Kits													
Recurring													
A4 Drawer Mod:EQUIPMENT Group B (Active)		- / -	- / -	- / -	49 / 28.308	- / -	49 / 28.308	88 / 29.913	320 / 19.457	- / 0.197	- / -	- / -	457 / 77.875
<i>Subtotal: Recurring</i>		- / -	- / -	- / -	- / 28.308	- / -	- / 28.308	- / 29.913	- / 19.457	- / 0.197	- / -	- / -	- / 77.875
<i>Subtotal: A4 Drawer Mod</i>		- / -	- / -	- / -	- / 28.308	- / -	- / 28.308	- / 29.913	- / 19.457	- / 0.197	- / -	- / -	- / 77.875
<i>Subtotal: Procurement, All Modification Items</i>		- / -	- / -	- / -	- / 28.308	- / -	- / 28.308	- / 29.913	- / 19.457	- / 0.197	- / -	- / -	- / 77.875
Support (All Modification Items)													
PMA - Other Gov't Costs		- / -	- / -	- / -	- / 2.328	- / -	- / 2.328	- / 1.848	- / 3.189	- / 1.328	- / 0.007	- / -	- / 8.700
<i>Subtotal: Support</i>		- / -	- / -	- / -	- / 2.328	- / -	- / 2.328	- / 1.848	- / 3.189	- / 1.328	- / 0.007	- / -	- / 8.700
Installation													
Modification Item 1 of 1: A4 Drawer Mod		- / -	- / -	- / -	- / -	- / -	- / -	49 / 0.275	88 / 1.447	310 / 1.514	10 / 0.168	- / -	457 / 3.404
<i>Subtotal: Installation</i>		- / -	- / -	- / -	- / -	- / -	- / -	49 / 0.275	88 / 1.447	310 / 1.514	10 / 0.168	- / -	457 / 3.404
Total													
Total Cost (Procurement + Support + Installation)		-	-	-	30.636	-	30.636	32.036	24.093	3.039	0.175	-	89.979

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Exhibit P-3a, Individual Modification: PB 2017 Air Force														Date: February 2016																
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1							P-1 Line Item Number / Title: M30MLG / MM III Modifications							Modification Number / Title: 5916 / ICBM Cryptography Upgrade Increment II																
Modification Item 1 of 1: A4 Drawer Mod																														
Manufacturer Information																														
Manufacturer Name: Boeing/Aeroflex							Manufacturer Location: Huntington Beach, CA																							
Administrative Leadtime (in Months): 5							Production Leadtime (in Months): 7																							
Dates	FY 2015		FY 2016		FY 2017		FY 2018		FY 2019		FY 2020		FY 2021																	
Contract Dates					Mar 2017		Mar 2018		Mar 2019																					
Delivery Dates					Oct 2017		Oct 2018		Oct 2019																					
Installation Information																														
Method of Implementation: Contract Field Team																														
Installation Cost			Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total		FY 2018		FY 2019		FY 2020		FY 2021		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)		Qty (Each) / Total Cost (\$ M)			
Prior Years	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2015	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2016	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2017	- / -		- / -		- / -		- / -		- / -		- / -		49 / 0.275		- / -		- / -		- / -		- / -		49 / 0.275							
FY 2018	- / -		- / -		- / -		- / -		- / -		- / -		- / -		88 / 1.447		- / -		- / -		- / -		88 / 1.447							
FY 2019	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		310 / 1.514		10 / 0.168		- / -		320 / 1.682							
FY 2020	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
FY 2021	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
To Complete	- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -							
Total	- / -		- / -		- / -		- / -		- / -		- / -		49 / 0.275		88 / 1.447		310 / 1.514		10 / 0.168		- / -		457 / 3.404							
Installation Schedule																														
PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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						
In	0	-	-	-	-	-	-	-	-	-	-	12	12	12	13	22	22	22	77	78	77	78	10	-	-	-	457			
Out	0	-	-	-	-	-	-	-	-	-	-	12	12	12	13	22	22	22	77	78	77	78	10	-	-	-	457			

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	7.689	21.867	-	21.867	21.023	0.052	0.053	-	-	50.684
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	7.689	21.867	-	21.867	21.023	0.052	0.053	-	-	50.684
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	7.689	21.867	-	21.867	21.023	0.052	0.053	-	-	50.684
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

LGM-30G Flight Test Telemetry and Termination (FT3), will replace the current Instrumentation Wafer and Flight Destruct System (FDS) capability, and modify the Launch Support System (LSS), used during MM III Operational Test Launches (OTLs). The current system is becoming unsupportable and does not meet updated Range Safety Standards as directed in Range Commanders Council (RCC) 319 and RCC 324. Air Force Global Strike Command (AFGSC) approved the AF Form 1067 for the instrumentation wafer in Jan 2014 and the AF Form 1067 for LSS/FDS in Jan 2015.

The Instrumentation Wafer and FDS replace the currently unsupportable Mod 7 wafer and Automated Ordnance Destruct System prior to supplies becoming exhausted in FY19. LSS replaces the current unique, specialized test system at Vandenberg AFB used to monitor and control test launch flights and ground support equipment. The current LSS is experiencing supportability issues with failure trends increasing due to hardware aging and obsolescence. A new LSS is required to field the Instrumentation Wafer and the FDS. All capabilities must be replaced to continue MM III operations through fielding of the Ground Based Strategic Deterrent (GBSD).

FY16 & FY17 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 requiring use of FY16 funds. After the initial procurement in FY18, follow on units will be procured as replenishment spares.

Milestone/Development Status

In FY14, development was initiated under the Instrumentation Wafer Replacement Program (under PE 0604851F). In FY15, capability for the Flight Destruct System and Launch Support System were added to provide a full FT3 capability.

Full development for FT3 use on MM III OTLs began in FY15 and will continue through transition of the instrumentation wafer and flight destruct capabilities into procurement and delivery of the launch support system capability.

Key FT3 development activities include:

FT3 PDR (May 2016)

FT3 CDR (May 2017)

FT3 PRR (May 2018)

FT3 Milestone C (May 2018)

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Exhibit P-3a, Individual Modification: PB 2017 Air Force							Date: February 2016		
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)	
Secondary Distribution	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021
AF	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	7.689	21.867	-	21.867	21.023	0.052	0.053
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	7.689	21.867	-	21.867	21.023	0.052	0.053

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016			
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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	- / -	- / 15.885	3 / 28.484	4 / 16.940	- / -	4 / 16.940	- / 13.942	1 / 10.027	- / -	- / -	- / -	- / -	8 / 85.278
Procurement													
<i>Modification Item 1 of 1: FT3</i>													
B Kits													
Recurring													
FT3:EQUIPMENT Group B (Active)		- / -	- / -	- / 7.689	- / 21.867	- / -	- / 21.867	8 / 21.023	- / 0.052	- / 0.053	- / -	- / -	8 / 50.684
<i>Subtotal: Recurring</i>		- / -	- / -	- / 7.689	- / 21.867	- / -	- / 21.867	- / 21.023	- / 0.052	- / 0.053	- / -	- / -	- / 50.684
<i>Subtotal: FT3</i>		- / -	- / -	- / 7.689	- / 21.867	- / -	- / 21.867	- / 21.023	- / 0.052	- / 0.053	- / -	- / -	- / 50.684
<i>Subtotal: Procurement, All Modification Items</i>		- / -	- / -	- / 7.689	- / 21.867	- / -	- / 21.867	- / 21.023	- / 0.052	- / 0.053	- / -	- / -	- / 50.684
Installation													
<i>Subtotal: Installation</i>		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total													
Total Cost (Procurement + Support + Installation)		-	-	7.689	21.867	-	21.867	21.023	0.052	0.053	-	-	50.684

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Exhibit P-3a, Individual Modification: PB 2017 Air Force						Date: February 2016	
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 (<i>in Months</i>): 3			Production Leadtime (<i>in Months</i>): 5				
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates				Jan 2018			
Delivery Dates				Jun 2018			
Installation Information							
Method of Implementation (Organic): Org/Intermediate				Installation Quantity: 8			

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016			
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): A										Program Elements for Code B Items: N/A			
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A											
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)		-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		0.276	0.276	15.359	0.282	26.620	26.902	0.288	0.291	0.296	0.301	-	43.989
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		0.276	0.276	15.359	0.282	26.620	26.902	0.288	0.291	0.296	0.301	-	43.989
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		0.276	0.276	15.359	0.282	26.620	26.902	0.288	0.291	0.296	0.301	-	43.989
<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: FY2016 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 AGM-65A/B Guidance Control System (GCS) is modified to Laser which is the "L" variant. For the backend, the AGM-65G Center Aft Section (CAS) mates with the GCS and CAS for a tactical AUR laser missile. 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 117 all-up-round AGM-65L Maverick missiles. Funding also covers the movement of over 200 Maverick GCS units (AGM-65 A/B/G) between the McAlester Army Ammunition Plant & Raytheon Missile Systems(Tucson, AZ). The older Maverick GCS units are upgraded/modified to Laser Maverick seekers.													
The FY2017 Overseas Contingency Operation (OCO) request will fund the modification of legacy AGM-65 Maverick missiles to Laser Maverick missiles and AGM-65L training assets with up to 244 missiles modified to Laser Maverick missiles. Missile modifications will replenish the Laser Maverick missiles expended in current combat operations.													

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force								Date: February 2016	
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): A		Program Elements for Code B Items: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A							
Exhibit Type	Title*	Subexhibits	ID CD	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
P-40a***	650002 / AGM-65 B TO H UPGRADES (Service Life Extension)			- / 0.276	- / 0.276	- / -	- / -	- / -	- / -
P-3a	650003 / Laser Maverick Mod (Capability Improvement)			- / -	- / -	- / 15.359	- / 0.282	- / 26.620	- / 26.902
P-40	Total Gross/Weapon System Cost			- / 0.276	- / 0.276	- / 15.359	- / 0.282	- / 26.620	- / 26.902
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	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)
P-40a***	650002 / AGM-65 B TO H UPGRADES (Service Life Extension)			- / -	- / -	- / -	- / -	- / -	- / 0.552
P-3a	650003 / Laser Maverick Mod (Capability Improvement)			- / 0.288	- / 0.291	- / 0.296	- / 0.301	- / -	- / 43.437
P-40	Total Gross/Weapon System Cost			- / 0.288	- / 0.291	- / 0.296	- / 0.301	- / -	- / 43.989

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

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

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

Justification:

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force									Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M65DAG / AGM-65D Maverick						Modification Number / Title: 650003 / Laser Maverick Mod			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	15.359	0.282	26.620	26.902	0.288	0.291	0.296	0.301	-	43.437
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	15.359	0.282	26.620	26.902	0.288	0.291	0.296	0.301	-	43.437
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	15.359	0.282	26.620	26.902	0.288	0.291	0.296	0.301	-	43.437
(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)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

AGM-65L is the Air Force Laser Maverick missile that aids in striking moving targets traveling at high velocities with proven accuracy and low collateral damage. The missile is a modification of inventory baseline Maverick missiles. The AGM-65L Maverick missiles replaced electro-optical TV seeker components with new Semi-Active Laser (SAL) components. The AGM-65A/B Guidance Control System (GCS) is modified to Laser which is the "L" variant. For the backend, the AGM-65G Center Aft Section (CAS) mates with the GCS and CAS for a tactical AUR laser missile. 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 117 all-up-round AGM-65L Maverick missiles. Funding also covers the movement of over 200 Maverick GCS units (AGM-65 A/B/G) between the McAlester Army Ammunition Plant & Raytheon Missile Systems(Tucson, AZ). The older Maverick GCS units are upgraded/modified to Laser Maverick seekers.

The FY2017 Overseas Contingency Operation (OCO) request will fund the modification of legacy AGM-65 Maverick missiles to Laser Maverick missiles and AGM-65L training assets with up to 244 missiles modified to Laser Maverick missiles. Missile modifications will replenish the Laser Maverick missiles expended in current combat operations.

Milestone/Development Status

N/A.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: M65DAG / AGM-65D Maverick						Modification Number / Title: 650003 / Laser Maverick Mod						
Models of Systems Affected: MAVERICK			Modification Type: Capability Improvement						Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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: AGM-65 Laser Sensor</i>															
B Kits															
Recurring															
AGM-65 Laser Sensor:EQUIPMENT Group B (Active)	- / -	- / -	152 / 15.080	- / -	242 / 26.620	242 / 26.620	- / -	- / -	- / -	- / -	- / -	394 / 41.700			
<i>Subtotal: Recurring</i>	- / -	- / -	- / 15.080	- / -	- / 26.620	- / 26.620	- / -	- / -	- / -	- / -	- / -	- / 41.700			
<i>Subtotal: AGM-65 Laser Sensor</i>	- / -	- / -	- / 15.080	- / -	- / 26.620	- / 26.620	- / -	- / -	- / -	- / -	- / -	- / 41.700			
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 15.080	- / -	- / 26.620	- / 26.620	- / -	- / -	- / -	- / -	- / -	- / 41.700			
Support (All Modification Items)															
OTHER GOVT	- / -	- / -	- / 0.279	- / 0.282	- / -	- / 0.282	- / 0.288	- / 0.291	- / 0.296	- / 0.301	- / -	- / 1.737			
<i>Subtotal: Support</i>	- / -	- / -	- / 0.279	- / 0.282	- / -	- / 0.282	- / 0.288	- / 0.291	- / 0.296	- / 0.301	- / -	- / 1.737			
Installation															
<i>Modification Item 1 of 1: AGM-65 Laser Sensor</i>	- / -	- / -	152 / -	242 / -	- / -	242 / -	- / -	- / -	- / -	- / -	- / -	394 / -			
<i>Subtotal: Installation</i>	- / -	- / -	152 / -	242 / -	- / -	242 / -	- / -	- / -	- / -	- / -	- / -	394 / -			
Total															
Total Cost (Procurement + Support + Installation)	-	-	15.359	0.282	26.620	26.902	0.288	0.291	0.296	0.301	-	43.437			

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Exhibit P-3a, Individual Modification: PB 2017 Air Force														Date: February 2016																		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: M65DAG / AGM-65D Maverick												Modification Number / Title: 650003 / Laser Maverick Mod																
Modification Item 1 of 1: AGM-65 Laser Sensor																																
Manufacturer Information																																
Manufacturer Name: Raytheon Tucson												Manufacturer Location: Tucson, Arizona																				
Administrative Leadtime (<i>in Months</i>): 0												Production Leadtime (<i>in Months</i>): 12																				
Dates	FY 2015	FY 2016			FY 2017			FY 2018			FY 2019			FY 2020			FY 2021															
Contract Dates		Aug 2016																														
Delivery Dates		Aug 2017			Sep 2018																											
Installation Information																																
Method of Implementation: Contractor Facility																																
Installation Cost			Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2018		FY 2019		FY 2020		FY 2021		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)	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 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
FY 2016	- / -	- / -	- / -	- / -	152 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	152 / -												
FY 2017	- / -	- / -	- / -	- / -	- / -	242 / -	- / -	- / -	242 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	242 / -												
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
To Complete	- / -	- / -	- / -	- / -	- / -	152 / -	- / -	- / -	242 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -												
Total	- / -	- / -	- / -	- / -	- / -	152 / -	- / -	- / -	242 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	394 / -												
Installation Schedule																																
PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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								
In	0	-	-	-	-	-	-	-	-	-	-	152	-	-	-	242	-	-	-	-	-	-	-	-	394							
Out	0	-	-	-	-	-	-	-	-	-	-	13	52	52	35	20	60	60	42	-	-	-	-	-	394							

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016					
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): A			Program Elements for Code B Items: N/A					Other Related Program Elements: 0207136F							
Line Item MDAP/MAIS Code: N/A			Item MDAP/MAIS Code(s): N/A												
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total			
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	71.681	0.297	0.197	-	-	-	-	-	-	-	-	72.175			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	71.681	0.297	0.197	-	-	-	-	-	-	-	-	72.175			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	71.681	0.297	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 (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			

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.

No Budget Year FY17 funding requested.

Funding for this exhibit contained in PE 0207162F.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016																																								
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): A		Program Elements for Code B Items: N/A					Other Related Program Elements: 0207136F																																								
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Exhibits Schedule</th> <th colspan="2">Prior Years</th> <th>FY 2015</th> <th>FY 2016</th> <th>FY 2017 Base</th> <th>FY 2017 OCO</th> <th>FY 2017 Total</th> </tr> <tr> <th>Exhibit Type</th> <th>Title*</th> <th>Subexhibits</th> <th>ID CD</th> <th>Quantity / Total Cost (Each) / (\$ M)</th> </tr> </thead> <tbody> <tr> <td>P-40a***</td><td>_2984 / HARM Control Section Modification (Capability Improvement)</td><td></td><td></td><td>- / 71.681</td><td>- / 0.297</td><td>- / 0.197</td><td>- / -</td><td>- / -</td><td>- / -</td></tr> <tr> <td>P-40</td><td>Total Gross/Weapon System Cost</td><td></td><td></td><td>- / 71.681</td><td>- / 0.297</td><td>- / 0.197</td><td>- / -</td><td>- / -</td><td>- / -</td></tr> </tbody> </table>								Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Exhibit Type	Title*	Subexhibits	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)	P-40a***	_2984 / HARM Control Section Modification (Capability Improvement)			- / 71.681	- / 0.297	- / 0.197	- / -	- / -	- / -	P-40	Total Gross/Weapon System Cost			- / 71.681	- / 0.297	- / 0.197	- / -	- / -	- / -
Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total																																						
Exhibit Type	Title*	Subexhibits	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)																																						
P-40a***	_2984 / HARM Control Section Modification (Capability Improvement)			- / 71.681	- / 0.297	- / 0.197	- / -	- / -	- / -																																						
P-40	Total Gross/Weapon System Cost			- / 71.681	- / 0.297	- / 0.197	- / -	- / -	- / -																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Exhibits Schedule</th> <th colspan="2">FY 2018</th> <th>FY 2019</th> <th>FY 2020</th> <th>FY 2021</th> <th>To Complete</th> <th>Total</th> </tr> <tr> <th>Exhibit Type</th> <th>Title*</th> <th>Subexhibits</th> <th>ID CD</th> <th>Quantity / Total Cost (Each) / (\$ M)</th> </tr> </thead> <tbody> <tr> <td>P-40a***</td><td>_2984 / HARM Control Section Modification (Capability Improvement)</td><td></td><td></td><td>- / -</td><td>- / -</td><td>- / -</td><td>- / -</td><td>- / -</td><td>- / 72.175</td></tr> <tr> <td>P-40</td><td>Total Gross/Weapon System Cost</td><td></td><td></td><td>- / -</td><td>- / -</td><td>- / -</td><td>- / -</td><td>- / -</td><td>- / 72.175</td></tr> </tbody> </table>								Exhibits Schedule			FY 2018		FY 2019	FY 2020	FY 2021	To Complete	Total	Exhibit Type	Title*	Subexhibits	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)	P-40a***	_2984 / HARM Control Section Modification (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 72.175	P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 72.175
Exhibits Schedule			FY 2018		FY 2019	FY 2020	FY 2021	To Complete	Total																																						
Exhibit Type	Title*	Subexhibits	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)																																						
P-40a***	_2984 / HARM Control Section Modification (Capability Improvement)			- / -	- / -	- / -	- / -	- / -	- / 72.175																																						
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	- / 72.175																																						
<p>*** 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.</p> <p>*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.</p> <p>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</p>																																															
<p>Justification: Where applicable, justification for individual modifications is provided in the P-3A exhibits.</p>																																															

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016					
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): B			Program Elements for Code B Items: 0101122F, 0101125F					Other Related Program Elements: 0101122F							
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A													
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total			
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	104.808	16.083	25.019	21.762	-	21.762	21.381	25.171	24.804	24.981	18.793	282.802			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	104.808	16.083	25.019	21.762	-	21.762	21.381	25.171	24.804	24.981	18.793	282.802			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	104.808	16.083	25.019	21.762	-	21.762	21.381	25.171	24.804	24.981	18.793	282.802			
<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 AGM-86B, Air Launched Cruise Missile (ALCM), is a subsonic, air-to-surface strategic nuclear missile, operational since 1982. Armed with a W80 warhead, it is designed to evade air and ground-based defenses in order to strike targets at any location within any enemy's territory. ALCM was designed for both B-52H internal and external carriage. Funding for this exhibit is contained in PE 0101122F.															

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016	
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): B		Program Elements for Code B Items: 0101122F, 0101125F			Other Related Program Elements: 0101122F			
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A						
Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-40a***	_0468 / AGM-86B Low Cost Mods (Other)			- / 1.313	- / 0.101	- / 0.130	- / 0.100	- / -
P-40a***	860001 / AGM-86B Service Life Extension Program 1 (Service Life Extension)			- / 6.782	- / 1.455	- / 0.015	- / 0.015	- / -
P-3a	2783 / AGM-86B Service Life Extention Program 2 (Service Life Extension)			- / 9.261	- / 11.260	- / 10.572	- / 11.080	- / -
P-3a	860004 / AGM-86B CALCM/ALCM Test Instrumentation Kit (Capability Improvement)			- / 87.452	- / 3.267	- / 10.059	- / 5.039	- / -
P-3a	860006 / AGM-86B Service Life Extension Program 3 (Service Life Extension)			- / -	- / -	- / 4.243	- / 5.528	- / -
P-40	Total Gross/Weapon System Cost			- / 104.808	- / 16.083	- / 25.019	- / 21.762	- / -
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete
Exhibit Type	Title*	Subexhibits	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)
P-40a***	_0468 / AGM-86B Low Cost Mods (Other)			- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -
P-40a***	860001 / AGM-86B Service Life Extension Program 1 (Service Life Extension)			- / 0.007	- / -	- / -	- / -	- / -
P-3a	2783 / AGM-86B Service Life Extention Program 2 (Service Life Extension)			- / 11.345	- / 11.033	- / 4.727	- / 0.143	- / 0.039
P-3a	860004 / AGM-86B CALCM/ALCM Test Instrumentation Kit (Capability Improvement)			- / 4.662	- / 8.790	- / 14.410	- / 18.984	- / 17.105
P-3a	860006 / AGM-86B Service Life Extension Program 3 (Service Life Extension)			- / 5.267	- / 5.248	- / 5.567	- / 5.754	- / 1.649
P-40	Total Gross/Weapon System Cost			- / 21.381	- / 25.171	- / 24.804	- / 24.981	- / 18.793
*** Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.								
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications.								
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.								
Justification: Where applicable, justification for individual modifications is provided in the P-3A exhibits.								

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
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 Extention Program 2		
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	9.261	11.260	10.572	11.080	-	11.080	11.345	11.033	4.727	0.143	0.039	69.460
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	9.261	11.260	10.572	11.080	-	11.080	11.345	11.033	4.727	0.143	0.039	69.460
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	9.261	11.260	10.572	11.080	-	11.080	11.345	11.033	4.727	0.143	0.039	69.460
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

AF Long Range Planning required the service life of the ALCM to be extended through 2030. In order to satisfy the life extension requirement, several phases of the Service Life Extension Program (SLEP) were implemented. This modification executes SLEP 2, using separate contractual vehicles to replace three critical components with refurbished components: Warhead Arming Device (WAD), Rotary Switch, Guided Missile Flight Controller (GMFC), and associated hardware. 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 units 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. Kits are required in FY16-FY22 for this modification. Program procurement and funding requirements have been extended due to technical issues with SLEP 2 components. The WAD has driven the critical path for the program. A latent defect was identified during First Article Testing (FAT) in Aug 14. The defect was resolved and the WAD successfully satisfied all FAT requirements in Jun 15. A revision to the Acquisition Program Baseline was approved by the PEO in Aug 15 authorizing installations to begin 3rd quarter FY16.

AFGSC updated Air Force Form 1067 dated Jan 7, 2015 to add 14 missiles from attrition reserve to the active fleet. An additional 14 kits will be procured in FY20 to fulfill the requirement.

In FY15, 94 kits were procured using current-year funds. In addition, \$210K was realigned to SLEP 1 to complete final kit procurement for the program to support the transition of 14 ALCMs from attrition reserve. SLEP funds will continue to support AFGSC and USSTRATCOM requirements to keep the ALCM viable through 2030.

NOTE: Funds from FY13 (\$2.720M) and FY14 (5.343M) were declared early-to-need due to FAT test failure and returned to the USAF in FY15. These funds (\$8.063M) were added in FY19-21 to fully fund the program.

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 2017 Air Force										Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)												
Models of Systems Affected: AGM-86B			Modification Type: Service Life Extension												
			Related RDT&E PEs: 0101122F												
		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total		
Financial Plan		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)	24 / 2.808	24 / 2.821	24 / 2.689	24 / 2.832	- / -	24 / 2.832	24 / 2.866	24 / 2.811	6 / 0.784	- / -	- / -	150 / 17.611			
<i>Subtotal: Recurring</i>	- / 2.808	- / 2.821	- / 2.689	- / 2.832	- / -	- / 2.832	- / 2.866	- / 2.811	- / 0.784	- / -	- / -	- / 17.611			
<i>Subtotal: SLEP 2 Depot</i>	- / 2.808	- / 2.821	- / 2.689	- / 2.832	- / -	- / 2.832	- / 2.866	- / 2.811	- / 0.784	- / -	- / -	- / 17.611			
<i>Modification Item 2 of 2: SLEP 2 Organic</i>															
B Kits															
Recurring															
SLEP 2 Organic:EQUIPMENT Group B (Active)	53 / 6.202	70 / 8.434	70 / 7.866	70 / 8.218	- / -	70 / 8.218	70 / 8.454	70 / 8.197	30 / 3.918	- / -	- / -	433 / 51.289			
<i>Subtotal: Recurring</i>	- / 6.202	- / 8.434	- / 7.866	- / 8.218	- / -	- / 8.218	- / 8.454	- / 8.197	- / 3.918	- / -	- / -	- / 51.289			
<i>Subtotal: SLEP 2 Organic</i>	- / 6.202	- / 8.434	- / 7.866	- / 8.218	- / -	- / 8.218	- / 8.454	- / 8.197	- / 3.918	- / -	- / -	- / 51.289			
<i>Subtotal: Procurement, All Modification Items</i>	- / 9.010	- / 11.255	- / 10.555	- / 11.050	- / -	- / 11.050	- / 11.320	- / 11.008	- / 4.702	- / -	- / -	- / 68.900			
Support (All Modification Items)															
OTHER GOVT	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.118	- / 0.021	- / 0.139			
PMA - Other Gov't Costs	- / 0.007	- / 0.005	- / 0.005	- / 0.005	- / -	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / 0.022			
A&AS	- / 0.244	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.244			
<i>Subtotal: Support</i>	- / 0.251	- / 0.005	- / 0.005	- / 0.005	- / -	- / 0.005	- / -	- / -	- / -	- / 0.118	- / 0.021	- / 0.405			
Installation															
<i>Modification Item 1 of 2: SLEP 2 Depot</i>	- / -	- / -	12 / 0.012	24 / 0.025	- / -	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	18 / 0.018	150 / 0.155			
<i>Subtotal: Installation</i>	- / -	- / -	12 / 0.012	24 / 0.025	- / -	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	18 / 0.018	150 / 0.155			
Total															
Total Cost (Procurement + Support + Installation)	9.261	11.260	10.572	11.080	-	11.080	11.345	11.033	4.727	0.143	0.039	69.460			

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Exhibit P-3a, Individual Modification: PB 2017 Air Force														Date: February 2016																	
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 Extention 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 (<i>in Months</i>): 4														Production Leadtime (<i>in Months</i>): 18																	
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021																								
Contract Dates	May 2015	May 2016	May 2017	May 2018	May 2019	May 2020																									
Delivery Dates	Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021																									
Installation Information																															
Method of Implementation: Depot																															
Installation Cost			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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)	Qty (Each) / Total Cost (\$ M)																
Prior Years			- / -	- / -	12 / 0.012	12 / 0.012	- / -	12 / 0.012	- / -	- / -	- / -	- / -	- / -				24 / 0.024														
FY 2015			- / -	- / -	- / -	12 / 0.013	- / -	12 / 0.013	12 / 0.012	- / -	- / -	- / -	- / -				24 / 0.025														
FY 2016			- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.013	12 / 0.012	- / -	- / -	- / -				24 / 0.025														
FY 2017			- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.013	12 / 0.012	- / -	- / -				24 / 0.025														
FY 2018			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.013	12 / 0.012	- / -				24 / 0.025														
FY 2019			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.013	12 / 0.012				24 / 0.025														
FY 2020			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -				6 / 0.006														
FY 2021			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -				- / -														
To Complete			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -				- / -														
Total			- / -	- / -	12 / 0.012	24 / 0.025	- / -	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	24 / 0.025	18 / 0.018			150 / 0.155														
Installation Schedule																															
PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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							
In	0	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	18	150						
Out	0	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	18	150						

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Exhibit P-3a, Individual Modification: PB 2017 Air Force						Date: February 2016	
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 Extention Program 2	
Modification Item 2 of 2: SLEP 2 Organic							
Manufacturer Information							
Manufacturer Name: BGRC			Manufacturer Location: Heath, OH				
Administrative Leadtime (<i>in Months</i>): 4			Production Leadtime (<i>in Months</i>): 18				
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
Contract Dates	May 2015	May 2016	May 2017	May 2018	May 2019	May 2020	
Delivery Dates	Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020	Nov 2021	
Installation Information							
Method of Implementation (Organic): Org/Intermediate				Installation Quantity: 433			

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
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 / AGM-86B CALCM/ALCM Test Instrumentation Kit		
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	87.452	3.267	10.059	5.039	-	5.039	4.662	8.790	14.410	18.984	17.105	169.768
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	87.452	3.267	10.059	5.039	-	5.039	4.662	8.790	14.410	18.984	17.105	169.768
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	87.452	3.267	10.059	5.039	-	5.039	4.662	8.790	14.410	18.984	17.105	169.768
(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)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program reflects the procurement of Conventional/Air Launched Cruise Missile (CALCM)/ALCM Test Instrumentation Kits (CATIK.) CATIKs provide telemetry, tracking, flight termination, and power to support missile flight testing while meeting Range Safety Standards (RCC-319.) CATIK units consist of payload doors, battery sets, and encryption/decryption units (EU/DU.) The CATIK is a T-2 mod required for flight testing; it provides critical data per AFGSC/CC Plan 001, Nuclear Weapon System Evaluation Program Feb 2010 and USSTRATCOM Instruction 526-1, Aug 2007. Seven CATIKs are consumed each year to support flight tests. This number may fluctuate based on flight test requirements. On Sep 10, 2010, AFGSC AF Form 1067 No. 10-028 increased the CATIK requirement by 66 units. A follow up memo (No. 10-033) added 14 more units to support flight test requirements through 2028.

Battery sets are procured every other year to circumvent battery shelf life limitations. A set consist of a Flight Termination System (FTS) battery and a separate battery to support the telemetry instrumentation. Battery sets have a two year lead time from receipt of order. CATIK batteries are represented in the "SUPPORT-EQUIP" line. The program plans to procure 36 battery sets by the end of FY21.

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 which supports the continued use of current KGV/KGR 68B chips out to a future classified date. This modification was initiated with an Aug 2014 award to Boeing for EU/DU replacement. Procurement is planned for FY17 concurrent with the follow-on purchase of CATIK units.

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

Milestone/Development Status

Development of the existing CATIK doors was completed in FY05.

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016				
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 / AGM-86B CALCM/ALCM Test Instrumentation Kit	
Models of Systems Affected: AGM-86B			Modification Type: Capability Improvement										Related RDT&E PEs: 0101122F	
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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	4 / 4.249	- / -	4 / 4.249	4 / 4.662	7 / 7.702	14 / 14.410	17 / 17.829	5 / 4.865	154 / 127.753		
<i>Subtotal: Recurring</i>	- / 63.977	- / -	- / 10.059	- / 4.249	- / -	- / 4.249	- / 4.662	- / 7.702	- / 14.410	- / 17.829	- / 4.865	- / 127.753		
<i>Subtotal: CATIKS</i>	- / 63.977	- / -	- / 10.059	- / 4.249	- / -	- / 4.249	- / 4.662	- / 7.702	- / 14.410	- / 17.829	- / 4.865	- / 127.753		
<i>Subtotal: Procurement, All Modification Items</i>	- / 63.977	- / -	- / 10.059	- / 4.249	- / -	- / 4.249	- / 4.662	- / 7.702	- / 14.410	- / 17.829	- / 4.865	- / 127.753		
Support (All Modification Items)														
GROUP B: TOTAL NONRECURRING	- / 1.767	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.767	
Change Orders	- / 2.786	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.786	
Data	- / 1.691	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.691	
OTHER GOVT	0 / 1.761	1 / 2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.061	
SUPPORT-EQUIP	74 / 15.470	12 / 0.967	- / -	12 / 0.790	- / -	12 / 0.790	- / -	12 / 1.088	- / -	12 / 1.155	32 / 12.240	154 / 31.710		
<i>Subtotal: Support</i>	74 / 23.475	13 / 3.267	- / -	12 / 0.790	- / -	12 / 0.790	- / -	12 / 1.088	- / -	12 / 1.155	32 / 12.240	155 / 42.015		
Installation														
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total														
Total Cost (Procurement + Support + Installation)	87.452	3.267	10.059	5.039	-	5.039	4.662	8.790	14.410	18.984	17.105	169.768		

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Exhibit P-3a, Individual Modification: PB 2017 Air Force						Date: February 2016				
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 / AGM-86B CALCM/ALCM Test Instrumentation Kit				
Modification Item 1 of 1: CATIKS										
Manufacturer Information										
Manufacturer Name: Boeing Company			Manufacturer Location: Seattle, WA							
Administrative Leadtime (<i>in Months</i>): 6			Production Leadtime (<i>in Months</i>): 24							
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021			
Contract Dates		Jun 2016	Jun 2017	Jun 2018	May 2019	Jun 2020	Jun 2021			
Delivery Dates		Jun 2018	Jun 2019	Jun 2020	May 2021	Jun 2022	Jun 2023			
Installation Information										
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 154					

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
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 / AGM-86B Service Life Extension Program 3			
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	4.243	5.528	-	5.528	5.267	5.248	5.567	5.754	1.649	33.256
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	4.243	5.528	-	5.528	5.267	5.248	5.567	5.754	1.649	33.256
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	4.243	5.528	-	5.528	5.267	5.248	5.567	5.754	1.649	33.256

(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)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

AF Long Range Planning requires the service life of the ALCM to be extended through 2030. In order to satisfy the life extension requirement, several phases of the Service Life Extension Program (SLEP) were implemented. Through studies, surveillance and analysis programs, various components were identified as candidates for replacement due to aging and obsolescence issues before they become fleet-wide problems. This modification executes SLEP 3 and will replace two components with new manufactured components: the W-10 Ordnance Cable and the Impact Sensor (fuze assembly). The W-10 cable will be manufactured by organic capability and the Impact Sensor will be manufactured by a contractor. 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 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. The installation cost section applies to kits being installed at the Depot (ACIs) and organizational levels.

The 424SCMS Impact Sensor (fuze assembly) (Engineer Model) was delayed due to funding and contract award delay; ECD is Sept 2016. Procurement of spares identified in "Support, Mod of Spares" will be identified as BP26 funds starting in FY17. Spares consist of six Impact Sensors (fuze assemblies) and three W-10 cables and will be procured during FY17-FY22.

SLEP 3 funds will continue to support AFGSC and USSTRATCOM requirements to keep the ALCM viable through 2030.

Milestone/Development Status

Engineering studies and analysis programs identified SLEP 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 2017 Air Force										Date: February 2016					
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 / AGM-86B Service Life Extension Program 3						
Models of Systems Affected: AGM-86B			Modification Type: Service Life Extension				Related RDT&E PEs: 0101122F								
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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>															
A Kits															
Recurring															
SLEP 3 Depot:INSTALL KITS Group A (Active)															
Subtotal: Recurring															
B Kits															
Recurring															
SLEP 3 Depot:GROUP A: TOTAL INSTALL KITS															
SLEP 3 Depot:EQUIPMENT Group B (Active)															
Subtotal: Recurring															
Subtotal: SLEP 3 Depot															
<i>Modification Item 2 of 2: SLEP 3 Organic</i>															
B Kits															
Recurring															
SLEP 3 Organic:EQUIPMENT Group B (Active)															
Subtotal: Recurring															
Subtotal: SLEP 3 Organic															
Subtotal: Procurement, All Modification Items															
Support (All Modification Items)															
GROUP B: TOTAL NONRECURRING															
OTHER GOVT															
PMA - Other Gov't Costs															
Mod of Spares															
Subtotal: Support															
Installation															
<i>Modification Item 1 of 2: SLEP 3 Depot</i>															
Subtotal: Installation															
Total															
Total Cost (Procurement + Support + Installation)			-	-	4.243	5.528	-	5.528	5.267	5.248	5.567	5.754	1.649	33.256	

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Exhibit P-3a, Individual Modification: PB 2017 Air Force														Date: February 2016																	
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 / AGM-86B 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 (<i>in Months</i>): 6														Production Leadtime (<i>in Months</i>): 1																	
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021																								
Contract Dates		Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021																								
Delivery Dates		May 2016	May 2017	May 2018	May 2019	May 2020	May 2021																								
Installation Information																															
Method of Implementation: Depot																															
Installation Cost			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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)	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 2015			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
FY 2016			- / -	- / -	- / -	12 / 0.046	- / -	12 / 0.046	12 / 0.047	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.093														
FY 2017			- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.047	12 / 0.049	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.096														
FY 2018			- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.049	12 / 0.050	- / -	- / -	- / -	- / -	- / -	24 / 0.099														
FY 2019			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.050	12 / 0.052	- / -	- / -	- / -	- / -	24 / 0.102														
FY 2020			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.052	12 / 0.055	- / -	- / -	- / -	- / -	24 / 0.105														
FY 2021			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.055	- / -	- / -	- / -	- / -	24 / 0.110														
To Complete			- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -														
Total			- / -	- / -	- / -	12 / 0.046	- / -	12 / 0.046	24 / 0.094	24 / 0.098	24 / 0.100	24 / 0.104	36 / 0.163	144 / 0.605																	
Installation Schedule																															
PYS	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				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							
In	0	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	36	144						
Out	0	-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	36	144						

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Exhibit P-3a, Individual Modification: PB 2017 Air Force						Date: February 2016				
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 / AGM-86B Service Life Extension Program 3				
Modification Item 2 of 2: SLEP 3 Organic										
Manufacturer Information										
Manufacturer Name: BGRC			Manufacturer Location: Heath, OH Production Leadtime (in Months): 1							
Administrative Leadtime (in Months): 6										
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021			
Contract Dates		Apr 2016	Apr 2017	Apr 2018	Apr 2019	Apr 2020	Apr 2021			
Delivery Dates		May 2016	May 2017	May 2018	May 2019	May 2020	May 2021			
Installation Information										
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 413					

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016					
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): B			Program Elements for Code B Items: 0207327F					Other Related Program Elements: N/A							
Line Item MDAP/MAIS Code: 439		Item MDAP/MAIS Code(s): N/A													
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total			
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	8.976	6.924	-	15.349	-	15.349	14.058	-	-	-	-	45.307			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	8.976	6.924	-	15.349	-	15.349	14.058	-	-	-	-	45.307			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	8.976	6.924	-	15.349	-	15.349	14.058	-	-	-	-	45.307			
<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: 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 FY2017 modifications are to the bomb rack unit (BRU-61/A) carriages. This modification adds capability to operate on 270 volts direct current (VDC) aircraft power in addition to the current configuration of 115 volts alternating current (VAC) capability. This will reduce risk to F-35A integration of SDB I and provide future aircraft loadout options to the inventory carriages. It will also increase weapon loadout by 300% and provide risk reduction for future SDB II integration. The original procurement of BRU-61/As was 2,000. This effort will procure 495 dual power modification kits. 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.															
Funding for this exhibit contained in PE 0207327F.															
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 2017 Air Force							Date: February 2016		
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): B				Program Elements for Code B Items: 0207327F					
Line Item MDAP/MAIS Code: 439		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-3a	610001 / GBU-39/B SDB I - BRU-61/A Dual Power Modifications (Capability Improvement)			- / 8.976	- / 6.924	- / -	- / 15.349	- / -	- / 15.349
P-40	Total Gross/Weapon System Cost			- / 8.976	- / 6.924	- / -	- / 15.349	- / -	- / 15.349
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	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)
P-3a	610001 / GBU-39/B SDB I - BRU-61/A Dual Power Modifications (Capability Improvement)			- / 14.058	- / -	- / -	- / -	- / -	- / 45.307
P-40	Total Gross/Weapon System Cost			- / 14.058	- / -	- / -	- / -	- / -	- / 45.307

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

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

Justification:

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

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb							Modification Number / Title: 610001 / GBU-39/B SDB I - BRU-61/A Dual Power Modifications		
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	8.976	6.924	-	15.349	-	15.349	14.058	-	-	-	-	45.307
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	8.976	6.924	-	15.349	-	15.349	14.058	-	-	-	-	45.307
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	8.976	6.924	-	15.349	-	15.349	14.058	-	-	-	-	45.307
(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)	-	-	-	-	-	-	-	-	-	-	-	-
Description: This effort funds the modification of the BRU-61/A bomb rack unit carriages. It adds capability to operate on 270 VDC aircraft power in addition to the current configuration's 115 VAC capability. This will reduce risk to F-35A integration of SDB I and provide future aircraft loadout options to the inventory carriages. This requirement supports both internal and external carriage of SDB I and other miniature munitions on the F-35A aircraft. This modification will increase weapon loadout by 300% and provide risk reduction for future SDB II integration.												
Procurement quantities can change based on negotiated options/pricing bands and available funding.												
Milestone/Development Status												
N/A												

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Exhibit P-3a, Individual Modification: PB 2017 Air Force										Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1			P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb							Modification Number / Title: 610001 / GBU-39/B SDB I - BRU-61/A Dual Power Modifications		
Models of Systems Affected: BRU-61A			Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	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: BRU-61/A Dual Power Kits</i>												
B Kits												
Recurring												
BRU-61/A Dual Power Kits:EQUIPMENT Group B (Active)		236 / 8.892	171 / 6.699	- / -	250 / 15.108	- / -	250 / 15.108	245 / 13.836	- / -	- / -	- / -	- / -
<i>Subtotal: Recurring</i>		- / 8.892	- / 6.699	- / -	- / 15.108	- / -	- / 15.108	- / 13.836	- / -	- / -	- / -	- / -
<i>Subtotal: BRU-61/A Dual Power Kits</i>		- / 8.892	- / 6.699	- / -	- / 15.108	- / -	- / 15.108	- / 13.836	- / -	- / -	- / -	- / -
<i>Subtotal: Procurement, All Modification Items</i>		- / 8.892	- / 6.699	- / -	- / 15.108	- / -	- / 15.108	- / 13.836	- / -	- / -	- / -	- / -
Support (All Modification Items)												
PMA - Other Gov't Costs		- / 0.084	- / 0.225	- / -	- / 0.241	- / -	- / 0.241	- / 0.222	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>		- / 0.084	- / 0.225	- / -	- / 0.241	- / -	- / 0.241	- / 0.222	- / -	- / -	- / -	- / -
Installation												
<i>Subtotal: Installation</i>		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total												
Total Cost (Procurement + Support + Installation)		8.976	6.924	-	15.349	-	15.349	14.058	-	-	-	-
LI SDB000 - Small Diameter Bomb												

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Exhibit P-3a, Individual Modification: PB 2017 Air Force				Date: February 2016									
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1		P-1 Line Item Number / Title: SDB000 / Small Diameter Bomb				Modification Number / Title: 610001 / GBU-39/B SDB I - BRU-61/A Dual Power Modifications							
Modification Item 1 of 1: BRU-61/A Dual Power Kits													
Manufacturer Information													
Manufacturer Name: Boeing				Manufacturer Location: St. Louis, MO									
Administrative Leadtime (<i>in Months</i>): 5				Production Leadtime (<i>in Months</i>): 12									
Dates	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021						
Contract Dates	Apr 2015		Mar 2017	Mar 2018									
Delivery Dates	Apr 2016		Mar 2018	Mar 2019									
Installation Information													
Method of Implementation (Organic): Org/Intermediate				Installation Quantity: 883									

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016					
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: N/A						Other Related Program Elements: N/A						
Line Item MDAP/MAIS Code: N/A			Item MDAP/MAIS Code(s): 185, 439												
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total			
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-			
Gross/Weapon System Cost (\$ in Millions)	70.346	87.364	48.523	81.607	-	81.607	94.277	88.568	87.280	87.995	-	645.960			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	70.346	87.364	48.523	81.607	-	81.607	94.277	88.568	87.280	87.995	-	645.960			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	70.346	87.364	48.523	81.607	-	81.607	94.277	88.568	87.280	87.995	-	645.960			
(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: The FY2017 funding request is significantly higher than the FY2016 funding request due to a reduction to FY2016 request to account for the availability of prior execution balances.															
Missile Initial Spares (Budget Program 26) and Replenishment Spares (Budget Program 25)															
Program Description: MISSILE INITIAL SPARES (Budget Program 26). Missile Initial Spares are required to fill the initial spare parts pipeline or inventory for all new ballistic and non-ballistic missile systems, including modifications, support equipment, and other production categories. Initial spares include peculiar 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.															
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.															
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.															
The following Major Defense Acquisition Programs (MDAP) have funding in this line:															
AMRAAM, 185 SDB II, 439															

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
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: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): 185, 439	
AIM-9X Blk II, 442 JASSM, 555		
This program has associated Research Development Test and Evaluation funding in PEs 11120F, 11213F, 27161F, 11122F, and 27163F.		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016		
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: N/A					
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): 185, 439				Other Related Program Elements: N/A			
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-18	Replen Spares/Repair Parts			- / 70.346	- / 87.364	- / 48.523	- / 81.607	- / -	- / 81.607
P-40	Total Gross/Weapon System Cost			- / 70.346	- / 87.364	- / 48.523	- / 81.607	- / -	- / 81.607
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	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)
P-18	Replen Spares/Repair Parts			- / 94.277	- / 88.568	- / 87.280	- / 87.995	- / -	- / 645.960
P-40	Total Gross/Weapon System Cost			- / 94.277	- / 88.568	- / 87.280	- / 87.995	- / -	- / 645.960

Title represents the P-18 Title for Spares.

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

Justification:

Small Diameter Bomb, and LGM-30 Minuteman III Mods have large replenishment spares requirements for FY2017. Tactical Aim Missile, and LGM-30 Minuteman III Mods have large initial spares requirements in FY2017.

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Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: PB 2017 Air Force									Date: February 2016			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 04 / 10			P-1 Line Item Number / Title: 999 / Replen Spares/Repair Parts						Title: Replen Spares/Repair Parts			
End Item Line Item Number / Name [MDAP/MAIS]	Prior Years (\$ M)	FY 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 Base (\$ M)	FY 2017 OCO (\$ M)	FY 2017 Total (\$ M)	FY 2018 (\$ M)	FY 2019 (\$ M)	FY 2020 (\$ M)	FY 2021 (\$ M)	To Complete (\$ M)	Total (\$ M)
Initial												
BA 04 - Spares and Repair Parts												
M09HAI / AIM-9 SIDEWINDER	-	-	-	5.257	-	5.257	3.472	2.477	2.475	-	-	13.681
M09BA1 / SIDEWINDER (AIM-9X)	-	1.717	0.604	2.427	-	2.427	2.236	1.817	1.849	1.881	-	12.531
M09HA1 / AIR LAUNCH CRUISE MISSILE (ALCM)	-	-	-	0.294	-	0.294	0.303	0.311	0.321	0.331	-	1.560
MAMRA0 / AMRAAM [185]	-	2.062	1.996	2.072	-	2.072	2.063	2.041	2.076	2.113	-	14.423
M09HA1 / JOINT AIR-SURFACE STANDOFF MISSILE	-	-	0.806	0.367	-	0.367	0.423	0.429	0.437	0.444	-	2.906
M30MLG / MM III MODIFICATIONS	-	12.938	-	6.660	-	6.660	7.729	0.149	0.199	0.203	-	27.878
Subtotal: Initial	-	16.717	3.406	17.077	-	17.077	16.226	7.224	7.357	4.972	-	72.979
Replenishment												
BA 04 - Spares and Repair Parts												
MO9BA1 / AIM-9X Tactical Air Intercept Missile	5.403	5.445	5.513	5.565	-	5.565	5.669	5.765	5.863	5.967	-	45.190
M30MLG / Arms Control Implementation	0.593	0.695	0.692	0.685	-	0.685	-	-	-	-	-	2.665
M09HA1 / AIM-9 Sidewinder	5.435	5.275	5.242	5.450	-	5.450	5.530	5.585	5.680	5.781	-	43.978
MALCBG / AGM-86 Air Launched Cruise Missile (ALCM)	4.561	4.767	0.496	3.232	-	3.232	2.936	2.300	2.339	2.380	-	23.011
M30MLG / LGM-30 MINUTEMAN (MM III)	40.261	40.536	23.857	32.912	-	32.912	47.886	53.260	51.357	53.949	-	344.018
M88AAG / AGM-88A Tactical AGM Missile (HARM)	3.488	3.440	3.484	3.516	-	3.516	3.582	3.643	3.706	3.771	-	28.630
MAMRA0 / AIM-120 Advanced Medium Range Air to Air Missile (AMRAAM) [185]	0.809	0.799	0.810	0.817	-	0.817	0.832	0.847	0.861	0.877	-	6.652
M65DAG / AGM-65D Maverick	1.497	1.481	1.492	1.506	-	1.506	1.534	1.559	1.587	1.615	-	12.271
PRDTA2 / Predator Hellfire Missile	0.299	0.296	0.294	0.292	-	0.292	0.297	0.301	0.307	0.313	-	2.399
SDB000 / Small Diameter Bomb [439]	8.000	7.913	3.237	10.555	-	10.555	9.785	8.084	8.223	8.370	-	64.167
Subtotal: Replenishment	70.346	70.647	45.117	64.530	-	64.530	78.051	81.344	79.923	83.023	-	572.981
Total Cost (Initial + Replenishment)	70.346	87.364	48.523	81.607	-	81.607	94.277	88.568	87.280	87.995	-	645.960

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016			
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: N/A							Other Related Program Elements: 0605431F			
Line Item MDAP/MAIS Code: 261		Item MDAP/MAIS Code(s): N/A											
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
Procurement Quantity (<i>Units in Each</i>)	4	-	-	-	-	-	-	-	-	-	-	-	4
Gross/Weapon System Cost (\$ in Millions)	4,288.873	298.462	-	-	-	-	-	-	-	-	-	-	4,587.335
Less PY Advance Procurement (\$ in Millions)	602.202	-	-	-	-	-	-	-	-	-	-	-	602.202
Net Procurement (P-1) (\$ in Millions)	3,686.671	298.462	-	-	-	-	-	-	-	-	-	-	3,985.133
Plus CY Advance Procurement (\$ in Millions)	602.202	-	-	-	-	-	-	-	-	-	-	-	602.202
Total Obligation Authority (\$ in Millions)	4,288.873	298.462	-	-	-	-	-	-	-	-	-	-	4,587.335
<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)	1,072.218	-	-	-	-	-	-	-	-	-	-	-	1,146.834
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 \$5,709.345M.													
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.													
FY17 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 completed and the report is being finalized. The USAF Space and Missile Systems Center (SMC) is conducting a follow-on study to refine the PSCS AoA recommendations and provide additional insight to support the future protected MILSATCOM architecture.													

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
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: N/A	Other Related Program Elements: 0605431F
Line Item MDAP/MAIS Code: 261	Item MDAP/MAIS Code(s): N/A	
The flyaway unit cost is not included on P-40 exhibit because there are multiple P-5 Cost Analysis exhibits.		
Total AEHF SV3 SV4 3020/3021 funds are \$3,059.420M. Total AEHF SV5 SV6 3020/3021 funds are \$2,649.925M.		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force								Date: February 2016																																																																																																				
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Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.																																																																																																												
<p>Justification: Not applicable (see Appropriation 3021, SPAF) documentation.</p> <p>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).</p> <p>See P5A for unit cost based on actual contract award or forecast contract cost.</p>																																																																																																												

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Exhibit P-5, Cost Analysis: PB 2017 Air Force											Date: February 2016						
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) : A											MDAP/MAIS Code:						
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total				
Procurement Quantity (<i>Units in Each</i>)		2	-	-	-	-	-	-	-	-	-	-	-				
Gross/Weapon System Cost (\$ in Millions)		2,866.538	65.266	-	-	-	-	-	-	-	-	-	-				
Less PY Advance Procurement (\$ in Millions)		375.030	-	-	-	-	-	-	-	-	-	-	-				
Net Procurement (P-1) (\$ in Millions)		2,491.508	65.266	-	-	-	-	-	-	-	-	-	-				
Plus CY Advance Procurement (\$ in Millions)		375.030	-	-	-	-	-	-	-	-	-	-	-				
Total Obligation Authority (\$ in Millions)		2,866.538	65.266	-	-	-	-	-	-	-	-	-	-				
(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)		1,433.269	-	-	-	-	-	-	-	-	-	-	-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																	
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Space Vehicle - AEHF SV3 SV4 Cost																	
Recurring Cost																	
AEHF Space Vehicle (SV) 3	832.268	1	832.268	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AEHF Space Vehicle (SV) 4 ^(t)	1,693.304	1	1,693.304	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Enterprise SE&I	-	-	31.690	-	-	8.341	-	-	-	-	-	-	-	-	-	-	-
GFP - ACF/IC2 Interim Contractor Support (All Labor)	-	-	12.275	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>2,569.537</i>	-	-	<i>8.341</i>	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Space Vehicle - AEHF SV3 SV4 Cost</i>	-	-	<i>2,569.537</i>	-	-	<i>8.341</i>	-	-	-	-	-	-	-	-	-	-	-
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	-	-	0.244	-	-	0.176	-	-	-	-	-	-	-	-	-	-	-
AEHF SV 4 Launch Support Services/Launch Readiness	-	-	5.446	-	-	39.725	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016													
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) : A													MDAP/MAIS Code:													
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																										
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 4 Propellant	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
AEHF SV 3-4 Satellite Transportation for Launch	-	-	0.339	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Command & Control System - Consolidated (CCS-C) Launch Support AEHF SV 4	-	-	0.004	-	-	1.836	-	-	-	-	-	-	-	-	-	-	-	-								
<i>Subtotal: Checkout and Launch - AEHF SV3 SV4 Cost</i>	-	-	68.240	-	-	41.737	-	-	-	-	-	-	-	-	-	-	-	-								
Support - AEHF SV3 SV4 Cost																										
FFRDC	-	-	121.985	-	-	9.378	-	-	-	-	-	-	-	-	-	-	-	-								
A&AS	-	-	106.776	-	-	5.310	-	-	-	-	-	-	-	-	-	-	-	-								
Other Support	-	-	0.000	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-								
<i>Subtotal: Support - AEHF SV3 SV4 Cost</i>	-	-	228.761	-	-	15.188	-	-	-	-	-	-	-	-	-	-	-	-								
Gross/Weapon System Cost	1,433.269	2	2,866.538	-	-	65.266	-	-	-	-	-	-	-	-	-	-	-	-								
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 Space Vehicle (SV) 4 ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,693.304	1	1,693.304								
Enterprise SE&I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.031								
GFP - ACF/IC2 Interim Contractor Support (All Labor)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.275								
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,577.878								
<i>Subtotal: Space Vehicle - AEHF SV3 SV4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,577.878								
Checkout and Launch - AEHF SV3 SV4 Cost																										
AEHF SV 3 Launch Support Services	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58.581								

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016							
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) : A													MDAP/MAIS Code:							
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 of AEHF SV 3 with Launch Vehicle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.128		
AEHF SV 3 Propellant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.498		
AEHF Spectrum Management Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.420		
AEHF SV 4 Launch Support Services/Launch Readiness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45.171		
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.840		
<i>Subtotal: Checkout and Launch - AEHF SV3 SV4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	109.977		
Support - AEHF SV3 SV4 Cost																				
FFRDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	131.363		
A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	112.086		
Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.500		
<i>Subtotal: Support - AEHF SV3 SV4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	243.949		
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,465.902	2	2,931.804		
Remarks: AEHF SV3 SV4 3020/3021 funds are \$ 3,048.224M.																				
(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
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	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
AEHF Space Vehicle (SV) 4 ^(t)		2010	Lockheed Martin / Sunnyvale, CA	SS / CPIF	SMC, LA AFB, CA	Dec 2010	Feb 2017	1	1,693.304	Y		Sep 2009

^(t) 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 2017 Air Force																								Date: February 2016								
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 (Units in Each)						Fiscal Year 2011												Fiscal Year 2012														
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2010	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 A N C E		
AEHF Space Vehicle (SV) 4																																1
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		

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																								
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 (Units in Each)						Fiscal Year 2013															Fiscal Year 2014																								
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013															Calendar Year 2014															B A L A N C E									
AEHF Space Vehicle (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																

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Exhibit P-21, Production Schedule: PB 2017 Air Force																								Date: February 2016								
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 (Units in Each)						Fiscal Year 2015												Fiscal Year 2016														
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	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 A N C E		
AEHF Space Vehicle (SV) 4																																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			

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																							
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 (Units in Each)					Fiscal Year 2017															Fiscal Year 2018																							
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	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 A N C E													
AEHF Space Vehicle (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	-								

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Exhibit P-21, Production Schedule: PB 2017 Air Force								Date: February 2016				
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				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - Sunnyvale, CA	-	-	-	-	-	-	-	-	15	74	89

"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 2017 Air Force											Date: February 2016							
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) : A											MDAP/MAIS Code:							
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total					
Procurement Quantity (<i>Units in Each</i>)		2	-	-	-	-	-	-	-	-	-	-	2					
Gross/Weapon System Cost (\$ in Millions)		1,422.335	233.196	-	-	-	-	-	-	-	-	-	1,655.531					
Less PY Advance Procurement (\$ in Millions)		227.172	-	-	-	-	-	-	-	-	-	-	227.172					
Net Procurement (P-1) (\$ in Millions)		1,195.163	233.196	-	-	-	-	-	-	-	-	-	1,428.359					
Plus CY Advance Procurement (\$ in Millions)		227.172	-	-	-	-	-	-	-	-	-	-	227.172					
Total Obligation Authority (\$ in Millions)		1,422.335	233.196	-	-	-	-	-	-	-	-	-	1,655.531					
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Unit Cost (\$ in Millions)		711.168	-	-	-	-	-	-	-	-	-	-	827.766					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 Total		
	Unit Cost (\$ M)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (<i>Each</i>)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (<i>Each</i>)	Total Cost (\$ M)			
Space Vehicle - SV5 SV6 Cost																		
Recurring Cost																		
AEHF SV 5-6 Block Buy	-	-	2,294.275	-	-	172.149	-	-	-	-	-	-	-	-	-			
FY15 Incremental Funding	-	-	-172.149	-	-	-	-	-	-	-	-	-	-	-	-			
FY16 Incremental Funding (3021)	-	-	-165.579	-	-	-	-	-	-	-	-	-	-	-	-			
FY17 Incremental Funding (3021)	-	-	-560.991	-	-	-	-	-	-	-	-	-	-	-	-			
AEHF 5-6 Block Buy satellites ^(†)	1,147.138	2	2,294.275	-	-	-	-	-	-	-	-	-	-	-	-			
AEHF 5-6 Block Buy satellites Debit	-	-	-2,294.275	-	-	-	-	-	-	-	-	-	-	-	-			
Enterprise SE&I	-	-	-	-	-	10.015	-	-	-	-	-	-	-	-	-			
GFP - ACF/IC2 Interim Contractor Support (All Labor)	-	-	19.222	-	-	17.345	-	-	-	-	-	-	-	-	-			
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,414.778</i>	-	-	<i>199.509</i>	-	-	-	-	-	-	-	-	-			
<i>Subtotal: Space Vehicle - SV5 SV6 Cost</i>	-	-	<i>1,414.778</i>	-	-	<i>199.509</i>	-	-	-	-	-	-	-	-	-			
Checkout and Launch - SV5 SV6 Cost																		
AEHF SV 5-6 Propellant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016													
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) : A													MDAP/MAIS Code:													
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																										
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 Spectrum Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
AEHF SV 5-6 Launch Support Services/Launch Readiness	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Command & Control System-Consolidated (CCS-C) Launch Support AEHF 5-6	-	-	-	-	-	1.843	-	-	-	-	-	-	-	-	-	-	-	-								
AEHF SV 5-6 Satellite Transportation for Launch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
<i>Subtotal: Checkout and Launch - SV5 SV6 Cost</i>	-	-	-	-	-	1.843	-	-	-	-	-	-	-	-	-	-	-	-								
Support - SV5 SV6 Cost																										
FFRDC	-	-	3.893	-	-	11.853	-	-	-	-	-	-	-	-	-	-	-	-								
A&AS	-	-	3.664	-	-	19.991	-	-	-	-	-	-	-	-	-	-	-	-								
<i>Subtotal: Support - SV5 SV6 Cost</i>	-	-	7.557	-	-	31.844	-	-	-	-	-	-	-	-	-	-	-	-								
Gross/Weapon System Cost	711.168	2	1,422.335	-	-	233.196	-	-	-	-	-	-	-	-	-	-	-	-								
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,466.424								
FY15 Incremental Funding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-172.149								
FY16 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-165.579								
FY17 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-560.991								
AEHF 5-6 Block Buy satellites ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,147.138	2	2,294.275								
AEHF 5-6 Block Buy satellites Debit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-2,294.275								
Enterprise SE&I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.015								

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016							
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) : A													MDAP/MAIS Code:							
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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)		
GFP - ACF/IC2 Interim Contractor Support (All Labor)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.567		
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,614.287		
<i>Subtotal: Space Vehicle - SV5 SV6 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,614.287		
Checkout and Launch - SV5 SV6 Cost																				
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.843		
AEHF SV 5-6 Satellite Transportation for Launch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<i>Subtotal: Checkout and Launch - SV5 SV6 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.843		
Support - SV5 SV6 Cost																				
FFRDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.746		
A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.655		
<i>Subtotal: Support - SV5 SV6 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.401		
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	827.766	2	1,655.531		
Remarks: AEHF SV 5-6 Block Buy funding includes Engineering Change Orders Total AEHF SV5 SV6 3020/3021 funds are \$2,673.442M																				
(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
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	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
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 2017 Air Force																					Date: February 2016												
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 (Units in Each)							Fiscal Year 2013												Fiscal Year 2014														
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	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 A N C E			
AEHF 5-6 Block Buy satellites																																	2
1 2012 AF							2	-	2	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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			

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																								
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 (Units in Each)						Fiscal Year 2015															Fiscal Year 2016																								
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015															Calendar Year 2016															B A L A N C E									
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																

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																				
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 (Units in Each)						Fiscal Year 2017												Fiscal Year 2018																							
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	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 A N C E											
AEHF 5-6 Block Buy satellites																																									
1	2012	AF	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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												

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																								
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 (Units in Each)					Fiscal Year 2019															Fiscal Year 2020																								
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	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 A N C E														
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	-									

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Exhibit P-21, Production Schedule: PB 2017 Air Force								Date: February 2016				
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				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - 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 2017 Air Force										Date: February 2016					
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: N/A					Other Related Program Elements: 0605433F							
Line Item MDAP/MAIS Code: 326			Item MDAP/MAIS Code(s): N/A												
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total			
Procurement Quantity (<i>Units in Each</i>)	8	-	-	-	-	-	-	-	-	-	-	8			
Gross/Weapon System Cost (\$ in Millions)	2,982.659	36.071	-	-	-	-	-	-	-	-	-	3,018.730			
Less PY Advance Procurement (\$ in Millions)	254.863	-	-	-	-	-	-	-	-	-	-	254.863			
Net Procurement (P-1) (\$ in Millions)	2,727.796	36.071	-	-	-	-	-	-	-	-	-	2,763.867			
Plus CY Advance Procurement (\$ in Millions)	254.863	-	-	-	-	-	-	-	-	-	-	254.863			
Total Obligation Authority (\$ in Millions)	2,982.659	36.071	-	-	-	-	-	-	-	-	-	3,018.730			
(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)	372.832	-	-	-	-	-	-	-	-	-	-	377.341			
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 \$3,332.249M.															
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 August 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 2017 Air Force		Date: February 2016
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: N/A	Other Related Program Elements: 0605433F
Line Item MDAP/MAIS Code: 326	Item MDAP/MAIS Code(s): N/A	
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.		
FY12 \$335M Congressional add procured WGS SV-10.		
WGS-7 was successfully launched on 23 July 2015. Satellites 8 through 10 are available for launch in FY16, FY17 and FY18, respectively.		
The Air Force has been working to identify opportunities for more affordable, efficient commercial satellite communications (COMSATCOM) business arrangements. Specifically, the Space and Missile Systems Center (SMC), Military Satellite Communications Systems (MILSATCOM) Directorate has developed a five phase COMSATCOM pathfinder investment strategy to burn down risk targeting affordability and performance.		
In an FY2014 effort to study SATCOM capabilities to support Remotely Piloted Aircraft (RPA) requirements, the WGS program invested \$8.0M in what is known as COMSATCOM Pathfinder #1. In Pathfinder #1, on-orbit commercial Ku-band transponders were purchased to support AFRICOM while demonstrating risk mitigation steps toward future innovative, affordable procurement of long term COMSATCOM capabilities.		
In FY2016, Congress added \$26.0M for the COMSATCOM pathfinder effort. The Pathfinder #2 plan is to purchase two pre-launch commercial Ku-band transponders and trade for pooled, portable bandwidth within CONUS.		
In FY2017, the Air Force plans to execute Pathfinder #3 by purchasing pre-launch commercial Ku-band transponder capability to expand pooled bandwidth concept (cover the Mediterranean area) and fund a study to prove that airborne intelligence, surveillance and reconnaissance (ISR) assets can handoff from one commercial satellite to another.		
In FY2018-2019, the Air Force has programmed funds for Pathfinders #4-5. The plans are to scale up the pooled bandwidth concept from Pathfinder #3 and buy one Ku-band transponder per year, and use an airborne ISR test asset to demonstrate the viability of exploring "high capacity" satellites.		
The flyaway unit cost is not included on P-40 exhibit because there are multiple P-5 Cost Analysis exhibits.		
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 \$1,712.823M.		
Funding for this exhibit is contained in PE 0303600F. This program has associated Research Development Test and Evaluation funding in PE 0605433F.		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016		
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: N/A					
Line Item MDAP/MAIS Code: 326		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-5	WGS SV1 SV5		A	5 / 1,619.426	- / -	- / -	- / -	- / -	- / -
P-5	WGS B2FO	P-5a, P-21	A	3 / 1,363.233	- / 36.071	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			8 / 2,982.659	- / 36.071	- / -	- / -	- / -	- / -
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	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)
P-5	WGS SV1 SV5		A	- / -	- / -	- / -	- / -	- / -	5 / 1,619.426
P-5	WGS B2FO	P-5a, P-21	A	- / -	- / -	- / -	- / -	- / -	3 / 1,399.304
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	8 / 3,018.730

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

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

Justification:

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 2017 Air Force											Date: February 2016						
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) : A											MDAP/MAIS Code:						
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total				
Procurement Quantity (<i>Units in Each</i>)		5	-	-	-	-	-	-	-	-	-	-	-	5			
Gross/Weapon System Cost (\$ in Millions)		1,619.426	-	-	-	-	-	-	-	-	-	-	-	1,619.426			
Less PY Advance Procurement (\$ in Millions)		138.343	-	-	-	-	-	-	-	-	-	-	-	138.343			
Net Procurement (P-1) (\$ in Millions)		1,481.083	-	-	-	-	-	-	-	-	-	-	-	1,481.083			
Plus CY Advance Procurement (\$ in Millions)		138.343	-	-	-	-	-	-	-	-	-	-	-	138.343			
Total Obligation Authority (\$ in Millions)		1,619.426	-	-	-	-	-	-	-	-	-	-	-	1,619.426			
(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)		323.885	-	-	-	-	-	-	-	-	-	-	-	323.885			
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																	
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
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 2017 Air Force													Date: February 2016											
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) : A													MDAP/MAIS Code:											
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																								
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)						
Subtotal: Checkout and Launch - WGS SV1 SV5 Cost	-	-	239.701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Support - WGS SV1 SV5 Cost																								
WGS SV 1-5 Joint Terminal Engineering Office	-	-	1.359	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
WGS SV 1-5 Program Office Support	-	-	43.550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
WGS SV 1-5 FFRDC	-	-	78.244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
WGS SV 1-5 A&AS	-	-	1.766	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
WGS SV 1-5 Other Support	-	-	2.289	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Subtotal: Support - WGS SV1 SV5 Cost	-	-	127.208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Gross/Weapon System Cost	323.885	5	1,619.426	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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						
Subtotal: Non Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.062						
Subtotal: Flyaway - WGS SV1 SV5 Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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					
Subtotal: Recurring Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,248.455						
Subtotal: Space Vehicle - WGS SV1 SV5 Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,248.455						
Checkout and Launch - WGS SV1 SV5 Cost																								

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016							
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) : A													MDAP/MAIS Code:							
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 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		
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 FFRDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	78.244		
WGS SV 1-5 A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.766		
WGS SV 1-5 Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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 2017 Air Force												Date: February 2016						
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) : A												MDAP/MAIS Code:						
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total					
Procurement Quantity (<i>Units in Each</i>)		3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
Gross/Weapon System Cost (\$ in Millions)		1,363.233	36.071	-	-	-	-	-	-	-	-	-	-	-	-	-	1,399.304	
Less PY Advance Procurement (\$ in Millions)		116.520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	116.520	
Net Procurement (P-1) (\$ in Millions)		1,246.713	36.071	-	-	-	-	-	-	-	-	-	-	-	-	-	1,282.784	
Plus CY Advance Procurement (\$ in Millions)		116.520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	116.520	
Total Obligation Authority (\$ in Millions)		1,363.233	36.071	-	-	-	-	-	-	-	-	-	-	-	-	-	1,399.304	
(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)		454.411	-	-	-	-	-	-	-	-	-	-	-	-	-	-	466.435	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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	443.532	1	443.532	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WGS SV 8 ^(†)	353.925	1	353.925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WGS SV 10 (Congressional add) ^(†)	338.700	1	338.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Recurring Cost</i>	-	-	1,136.157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016															
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) : A													MDAP/MAIS Code:															
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																												
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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	-	-	19.051	-	-	21.647	-	-	-	-	-	-	-	-	-	-	-	-										
Command & Control System - Consolidated (CCS-C) WGS B2FO support	-	-	2.589	-	-	2.071	-	-	-	-	-	-	-	-	-	-	-	-										
Technical Mission Analysis	-	-	-	-	-	5.803	-	-	-	-	-	-	-	-	-	-	-	-										
WGS Enterprise SE&I	-	-	1.700	-	-	1.000	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Subtotal: Checkout and Launch - WGS B2FO Cost</i>	-	-	23.340	-	-	30.521	-	-	-	-	-	-	-	-	-	-	-	-										
Support - WGS B2FO Cost																												
WGS B2FO Test Support	-	-	0.284	-	-	0.150	-	-	-	-	-	-	-	-	-	-	-	-										
WGS B2FO Lincoln Labs	-	-	10.251	-	-	1.450	-	-	-	-	-	-	-	-	-	-	-	-										
Study SATCOM capabilities to support RPA requirements	-	-	8.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
WGS B2FO A&AS	-	-	35.288	-	-	3.112	-	-	-	-	-	-	-	-	-	-	-	-										
WGS B2FO Other Support	-	-	1.578	-	-	0.181	-	-	-	-	-	-	-	-	-	-	-	-										
FFRDC	-	-	-	-	-	0.657	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Subtotal: Support - WGS B2FO Cost</i>	-	-	55.401	-	-	5.550	-	-	-	-	-	-	-	-	-	-	-	-										
Gross/Weapon System Cost	454.411	3	1,363.233	-	-	36.071	-	-	-	-	-	-	-	-	-	-	-	-										
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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										
WGS SV 7 Redundant Ports	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.407										

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Exhibit P-5, Cost Analysis: PB 2017 Air Force														Date: February 2016									
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) : A														MDAP/MAIS Code:									
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	443.532	1	443.532					
WGS SV 8 ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	353.925	1	353.925					
WGS SV 10 (Congressional add) ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	338.700	1	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.698					
Command & Control System - Consolidated (CCS-C) WGS B2FO support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.660					
Technical Mission Analysis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.803					
WGS Enterprise SE&I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.700					
<i>Subtotal: Checkout and Launch - WGS B2FO Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53.861					
Support - WGS B2FO Cost																							
WGS B2FO Test Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.434					
WGS B2FO Lincoln Labs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.701					
Study SATCOM capabilities to support RPA requirements	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.000					
WGS B2FO A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.400					
WGS B2FO Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.759					
FFRDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.657					

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016							
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) : A													MDAP/MAIS Code:							
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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: Support - WGS B2FO Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60.951		
<i>Gross/Weapon System Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	466.435	3	1,399.304		

Remarks:

Total WGS B2FO 3020/3021 funds are \$1,712.823M.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
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	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
WGS SV 8 ^(†)		2012	Boeing Satellite Systems / El Segundo, CA	SS / FFP	SMC, LA AFB, CA	Dec 2011	Sep 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-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.

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 2017 Air Force																					Date: February 2016														
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 (Units in Each)					Fiscal Year 2012															Fiscal Year 2013															
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	Calendar Year 2012										Calendar Year 2013										B A L A N C E									
				O C T	N O V	D E C	J A N	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								
WGS SV 8				1	2012	AF	1	-	1	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
WGS SV 10 (Congressional add)				2	2012	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							

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																
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 (Units in Each)						Fiscal Year 2014															Fiscal Year 2015																
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014										Calendar Year 2015										Calendar Year 2015										B A L A N C E	
WGS SV 8	1	2012	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
WGS SV 10 (Congressional add)						2	2012	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								

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																			
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 (Units in Each)					Fiscal Year 2016															Fiscal Year 2017																				
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	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 A N C E										
WGS SV 8					1	2012	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	1	1	2012	AF	1	-	1	-	-	-	-	-	-	-	-					
WGS SV 10 (Congressional add)					2	2012	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	2012	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												

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																									
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 (Units in Each)						Fiscal Year 2018															Fiscal Year 2019																									
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018															Calendar Year 2019															B A L A N C E										
1	2012	AF	1	1	-	WGS SV 8															WGS SV 10 (Congressional add)															-										
2	2012	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	-													

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Exhibit P-21, Production Schedule: PB 2017 Air Force								Date: February 2016				
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				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Boeing Satellite Systems - El Segundo, CA	-	-	-	-	-	-	-	-	-	-	-
2	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 2017 Air Force								Date: February 2016				
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							
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A					Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 292		Item MDAP/MAIS Code(s): N/A										
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	6	1 ⁽¹⁾	-	-	-	-	-	-	-	-	-	7
Gross/Weapon System Cost (\$ in Millions)	1,436.455	277.493	-	-	-	-	-	-	-	-	-	1,713.948
Less PY Advance Procurement (\$ in Millions)	238.001	52.167	-	-	-	-	-	-	-	-	-	290.168
Net Procurement (P-1) (\$ in Millions)	1,198.454	225.326	-	-	-	-	-	-	-	-	-	1,423.780
Plus CY Advance Procurement (\$ in Millions)	290.168	- ⁽²⁾	-	-	-	-	-	-	-	-	-	290.168
Total Obligation Authority (\$ in Millions)	1,488.622	225.326	-	-	-	-	-	-	-	-	-	1,713.948
(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)	239.409	277.493	-	-	-	-	-	-	-	-	-	244.850
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. Only Prior Years (PY) and Calendar Year (CY) will be displayed in the MPAF/3020 exhibits. Total 3020/3021 funding is \$8992.7M.												
The Global Positioning System (GPS) is a space-based navigation system that 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. 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 system is composed of three segments: User Equipment (funded under PE 0305164F), Space (funded under PE 0305265F and 0305165F), 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 PE 0305265F, BPAC 23GPS3, 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. Additionally, GPS supports the United States Nuclear Detonation (NUDET) Detection System (NDS) mission and provides strategic and tactical support to the following Department of Defense (DoD) missions: Joint Operations by providing capabilities for Positioning, Navigation, and Timing (PNT); Command, Control, Communications, and Intelligence (C3I); Special Operations; Military Operations in Urban Terrain (MOUT); Defense-Wide Mission Support; Air Mobility; and Space Launch Orbital Support.												
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. SV10 Advance Procurement will be funded with FY15 3020/MPAF while SV10 Full Procurement will be funded with FY16/3021 SPAF funding.												
The flyaway unit cost is not included on P-40 exhibit because there are multiple P-5 Cost Analysis exhibits. Funding for this exhibit contained in PE 0305265F.												

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016		
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					
ID Code (A=Service Ready, B=Not Service Ready): A				Program Elements for Code B Items: N/A					
Line Item MDAP/MAIS Code: 292		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-5	GPS III Space Segment	P-5a, P-21	A	6 / 1,436.455	1 / 277.493	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			6 / 1,436.455	1 / 277.493	- / -	- / -	- / -	- / -
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	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)
P-5	GPS III Space Segment	P-5a, P-21	A	- / -	- / -	- / -	- / -	- / -	7 / 1,713.948
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	7 / 1,713.948

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

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

Justification:

No FY17 funding requested. See Appropriation 3021, SPAF.

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

Footnotes:

(1) Due to an inadvertent error the quantities for FY15 were loaded in the Space Procurement, Air Force appropriation. Thus, the quantities for FY15 in this exhibit do not match the P-1 exhibit.

(2) MPAF FY15 Advance Procurement as of 30 Sep 15 was \$87.0M. FY15 Advance Procurement is reported in SPAF MGPS00 GPS III to preserve Weapon System Costs.

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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016					
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) : A												MDAP/MAIS Code:					
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total				
Procurement Quantity (Units in Each)		6	1	-	-	-	-	-	-	-	-	-	-	-	-	7	
Gross/Weapon System Cost (\$ in Millions)		1,436.455	277.493	-	-	-	-	-	-	-	-	-	-	-	-	1,713.948	
Less PY Advance Procurement (\$ in Millions)		238.001	52.167	-	-	-	-	-	-	-	-	-	-	-	-	290.168	
Net Procurement (P-1) (\$ in Millions)		1,198.454	225.326	-	-	-	-	-	-	-	-	-	-	-	-	1,423.780	
Plus CY Advance Procurement (\$ in Millions)		290.168	-	-	-	-	-	-	-	-	-	-	-	-	-	290.168	
Total Obligation Authority (\$ in Millions)		1,488.622	225.326	-	-	-	-	-	-	-	-	-	-	-	-	1,713.948	
(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)		239.409	277.493	-	-	-	-	-	-	-	-	-	-	-	-	244.850	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																	
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)
Space Vehicle - Space Vehicle End Item Cost																	
Recurring Cost																	
GPS III SV 03-10(t)	230.396	6	1,382.374	257.308	1	257.308	-	-	-	-	-	-	-	-	-	-	-
GPS III SV 03-10 Technical Mission Analysis	-	-	-	-	-	1.155	-	-	-	-	-	-	-	-	-	-	-
GPS III SV 03-10 Enterprise SE&I	-	-	-	-	-	0.734	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	1,382.374	-	-	259.197	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Space Vehicle - Space Vehicle End Item Cost	-	-	1,382.374	-	-	259.197	-	-	-	-	-	-	-	-	-	-	-
Support - Support End Item Cost																	
GPS III SV 03-10 FFRC	-	-	5.626	-	-	7.310	-	-	-	-	-	-	-	-	-	-	-
GPS III SV 03-10 A&AS	-	-	48.455	-	-	10.307	-	-	-	-	-	-	-	-	-	-	-
GPS III SV 03-10 Other Support	-	-	-	-	-	0.679	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Support - Support End Item Cost	-	-	54.081	-	-	18.296	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	239.409	6	1,436.455	277.493	1	277.493	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Air Force														Date: February 2016							
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) : A														MDAP/MAIS Code:							
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 - Space Vehicle End Item Cost																					
Recurring Cost																					
GPS III SV 03-10(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	234.240	7	1,639.682		
GPS III SV 03-10 Technical Mission Analysis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.155		
GPS III SV 03-10 Enterprise SE&I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.734		
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<i>1,641.571</i>		
<i>Subtotal: Space Vehicle - Space Vehicle End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<i>1,641.571</i>		
Support - Support End Item Cost																					
GPS III SV 03-10 FFRDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.936		
GPS III SV 03-10 A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58.762		
GPS III SV 03-10 Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.679		
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<i>72.377</i>		
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	244.850	7	1,713.948	
Remarks: Unit Cost comprised of both 3020 and 3021 procurement funds																					
(†) indicates the presence of a P-5a																					

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
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	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
GPS III SV 03-10		2014	Lockheed Martin / Denver, CO	C / CPAF	LAAFB, CA	Apr 2014	Jul 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	257.308	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 2017 Air Force																					Date: February 2016														
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1																					Item Number / Title [DODIC]: - / GPS III Space Segment														
Cost Elements (Units in Each)																					Fiscal Year 2014														
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014																				Fiscal Year 2015									
GPS III SV 03-10																					Calendar Year 2015														
Prior Years Deliveries: 4																																			
1	2015	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	1					

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016													
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 (Units in Each)						Fiscal Year 2016												Fiscal Year 2017																
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	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 A N C E				
GPS III SV 03-10																																		
Prior Years Deliveries: 4																																		
1	2015	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					

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																									
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 (Units in Each)						Fiscal Year 2018															Fiscal Year 2019																									
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Fiscal Year 2018															Fiscal Year 2019																									
Cost Elements (Units in Each)						Fiscal Year 2018															Fiscal Year 2019																									
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Fiscal Year 2018															Fiscal Year 2019																									
GPS III SV 03-10						Fiscal Year 2018															Fiscal Year 2019																									
Prior Years Deliveries: 4						Fiscal Year 2018															Fiscal Year 2019																									
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																	

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016											
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 (Units in Each)						Fiscal Year 2020												Fiscal Year 2021														
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	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 A N C E		
GPS III SV 03-10																					Calendar Year 2020											
Prior Years Deliveries: 4																					Calendar Year 2021											
1	2015	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			

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Exhibit P-21, Production Schedule: PB 2017 Air Force								Date: February 2016				
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				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - 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).

UNCLASSIFIED

Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2017 Air Force										Date: February 2016			
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: N/A										Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: 292	Item MDAP/MAIS Code(s): N/A												
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
Gross/Weapon System Cost (\$ in Millions)	290.168	- (1)	-	-	-	-	-	-	-	-	-	290.168	
Net Procurement (P-1) (\$ in Millions)	290.168	- (1)	-	-	-	-	-	-	-	-	-	290.168	
Total Obligation Authority (\$ in Millions)	290.168	- (1)	-	-	-	-	-	-	-	-	-	290.168	

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. Only Prior Years (PY) and Calendar Year (CY) are displayed in the MPAF/3020 exhibits. Total 3020/3021 funding is \$8992.7M.

The Global Positioning System (GPS) is a space-based navigation system that 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. 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 system is composed of three segments: User Equipment (funded under PE 0305164F), Space (funded under PE 0305265F and 0305165F), 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 PE 0305265F, BPAC 23GPS3, 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. Additionally, GPS supports the United States Nuclear Detonation (NUDET) Detection System (NDS) mission and provides strategic and tactical support to the following Department of Defense (DoD) missions: Joint Operations by providing capabilities for Positioning, Navigation, and Timing (PNT); Command, Control, Communications, and Intelligence (C3I); Special Operations; Military Operations in Urban Terrain (MOUT); Defense-Wide Mission Support; Air Mobility; and Space Launch Orbital Support.

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 GPSIII SV09-10 purchase will be on the current Lockheed Martin contract as technical equivalents of SV01-08. SV10 Advance Procurement will be funded with FY15 3020/MPAF while SV10 Full Procurement will be funded with FY16/3021 SPAF funding.

The flyaway unit cost is not included on P-40 exhibit because there are multiple P-5 Cost Analysis exhibits. Funding for this exhibit is contained in PE 0305265F, BPAC 23GPS3.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2017 Air Force						Date: February 2016		
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: N/A				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: 292	Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*		ID CD	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)
P-10	GPS III Space Segment			6 / 290.168	1 / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			6 / 290.168	1 / - (1)	- / -	- / -	- / -
Exhibits Schedule			FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*		ID CD	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)	Quantity / Total Cost (Each) I (\$ M)
P-10	GPS III Space Segment			- / -	- / -	- / -	- / -	7 / 290.168
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	7 / 290.168

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

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

Justification:

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

Footnotes:

(1) MPAF FY15 Advance Procurement as of 30 Sep 15 was \$87.0M. FY15 Advance Procurement is reported in SPAF MGPS00 GPS III to preserve Weapon System Costs.

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2017 Air Force										Date: February 2016					
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1			P-1 Line Item Number / Title: GPSIII / GPS III Space Segment												
First System (2017) Award Date: February 2016		First System (2017) Completion Date: February 2016					Interval Between Systems: 0 Months								
GPS III Space Segment			Production Leadtime (Months)	Prior Years (Each)	FY 2015 (Each)	FY 2016 (Each)	FY 2017 (Each)	FY 2018 (Each)	FY 2019 (Each)	FY 2020 (Each)	FY 2021 (Each)	To Complete (Each)	Total (Each)		
Quantity			6	1	-	-	-	-	-	-	-	-	7		
Cost Elements			When Required (Months)	Prior Years (\$ M)	FY 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 (\$ M)	FY 2018 (\$ M)	FY 2019 (\$ M)	FY 2020 (\$ M)	FY 2021 (\$ M)	To Complete (\$ M)	Total (\$ M)		
CFE															
GPS III SV 03-10			0	290.168	-	-	-	-	-	-	-	-	290.168		
<i>Total: CFE</i>				290.168	-	-	-	-	-	-	-	-	290.168		
Total Advance Procurement/Obligation Authority				290.168	-	-	-	-	-	-	-	-	290.168		

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2017 Air Force				Date: February 2016			
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		
Cost Elements	QPA (Each)	FY 2017					
		Production Leadtime (Months)	Unit Cost (\$ M)	Contract Forecast Date	2017 Qty (Each)	For FY	Total Cost Request (\$ M)
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).

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016		
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: MC0MSE / Spaceborne Equip (Comsec)							
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A							Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: N/A	Item MDAP/MAIS Code(s): N/A											
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	13.401	-	-	-	-	-	-	-	-	-	13.401
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	13.401	-	-	-	-	-	-	-	-	-	13.401
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	13.401	-	-	-	-	-	-	-	-	-	13.401
<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 2017 Air Force							Date: February 2016		
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:						
3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 1: Space Programs			MC0MSE / Spaceborne Equip (Comsec)						
ID Code (A=Service Ready, B=Not Service Ready): A		Program Elements for Code B Items: N/A				Other Related Program Elements: N/A			
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule			Prior Years		FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-5	Spaceborne Equip (Comsec)	P-5a	A	- / -	- / 13.401	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / -	- / 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 sum exactly due to rounding.

Justification:

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

a. Products: FY17 funding provides for the production of Space COMSEC products to meet developing and operational space program needs. Space COMSEC products include End Crypto Units (ECU), Embedment Solutions (ES), TRANSEC and ancillaries. Due to low volume production quantities and high reliability design, Space COMSEC products can range in price from \$10K per unit to \$2M per unit. As a commodity item, Space COMSEC procures standard crypto products which enable minimized lifecycle footprints. Space COMSEC procures from multiple crypto vendors, however, with the low volume consumption by space programs the space crypto industry base is less than a dozen companies. Items requested in FY17 are identified on the following P-5 and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements. Contractor support costs are included as part of the Space COMSEC products funding line in order to provide for end item operational capability.

b. Logistics: FY17 funding provides for the production of Space COMSEC Logistics elements. Space COMSEC products typically have a 20 to 40 year lifecycles to support development, launch and operation of multiple AF and DOD space systems. Space COMSEC is provided as Government Furnished Equipment (GFE) to the space system developing contractors and operational ground stations. Space COMSEC products are high cost critical assets. They are organically sustained to include component level maintenance exclusively by the AF. Logistics procures the necessary lifecycle sustainment elements required to meet the 40 year mission requirements. Logistics elements include but not limited to specialized test sets, certified training materials and courses, maintenance manuals, provisioning, spare components, and modifications. Contractor support costs are included as part of the Space COMSEC logistics funding line in order to provide for end item operational capability.

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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016						
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1			P-1 Line Item Number / Title: MC0MSE / Spaceborne Equip (Comsec)												Item Number / Title [DODIC]: - / Spaceborne Equip (Comsec)			
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:						
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		13.401		-		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		13.401		-		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		13.401		-		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Millions)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 ^(†)	-	-	-	0.060	201	12.099	-	-	-	-	-	-	-	-	-	-	-	
Logistics ^(†)	-	-	-	0.260	5	1.302	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Support - End Items Cost</i>	-	-	-	-	-	13.401	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost	-	-	-	-	-	13.401	-	-	-	-	-	-	-	-	-	-	-	

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 05 / 1			P-1 Line Item Number / Title: MC0MSE / Spaceborne Equip (Comsec)					Item Number / Title [DODIC]: - / Spaceborne Equip (Comsec)				
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
Products		2015	MULTIPLE / MULTIPLE	C / FFP	AFMC/ESC	Feb 2016	Oct 2016	201	0.060	Y		
Logistics		2015	MULTIPLE / MULTIPLE	C / FFP	AFMC/ESC	Mar 2016	Mar 2016	5	0.260	Y		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016					
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: N/A					Other Related Program Elements: N/A							
Line Item MDAP/MAIS Code: 166		Item MDAP/MAIS Code(s): N/A													
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total			
Procurement Quantity (<i>Units in Each</i>)	61	-	-	-	-	-	-	-	-	-	-	61			
Gross/Weapon System Cost (\$ in Millions)	3,844.734	52.959	-	-	-	-	-	-	-	-	-	3,897.693			
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Net Procurement (P-1) (\$ in Millions)	3,844.734	52.959	-	-	-	-	-	-	-	-	-	3,897.693			
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	3,844.734	52.959	-	-	-	-	-	-	-	-	-	3,897.693			
<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)	63.028	-	-	-	-	-	-	-	-	-	-	63.897			
Description:															
This exhibit will only display values in Prior Years (PY) and FY15. As of the FY16 PB submission, FY16 and beyond 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), and will be displayed in the corresponding SPAF/3021 exhibits. Total 3020/3021 procurement funding is \$3974.999M.															
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 firm fixed price services contract with a period of performance from 1 Jan 2013 to 31 Dec 2016. The LOOS contract will end on 31 Dec 2016 and IIF will transition to sustainment. The contract includes: launch readiness activities, launch and on-orbit checkout of up to nine GPS IIF Space Vehicles (SVs). Services to store, maintain, and transport up to nine GPS IIF SVs, on-orbit operations for up to twelve GPS IIF SVs, quick reaction support, anomaly resolution, and anomaly investigation.															
GPS IIF is the follow-on program to IIR-M (last launch Aug 09) and was awarded in 1995 to Rockwell International (now Boeing, El Segundo, California). The contract was modified in 2002 for the modernization of all IIF SVs. Of the 12 satellite vehicles contracted for, 11 have been launched and are successfully on orbit (the 11th IIF was successfully launched in October 2015). The remaining vehicle has been accepted and is at the Cape awaiting launch in February 2016. 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 initial 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.															

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
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: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: 166	Item MDAP/MAIS Code(s): N/A	
Funding for this exhibit contained in PE 0305165F.		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016		
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: N/A					
Line Item MDAP/MAIS Code: 166		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-5	Global Positioning (Space)		A	61 / 3,844.734	- / 52.959	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			61 / 3,844.734	- / 52.959	- / -	- / -	- / -	- / -
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	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)
P-5	Global Positioning (Space)		A	- / -	- / -	- / -	- / -	- / -	61 / 3,897.693
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	61 / 3,897.693

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

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

Justification:

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

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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016			
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) : A												MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total		
Procurement Quantity (<i>Units in Each</i>)		61	-	-	-	-	-	-	-	-	-	-	-	-	61
Gross/Weapon System Cost (\$ in Millions)		3,844.734	52.959	-	-	-	-	-	-	-	-	-	-	-	3,897.693
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)		3,844.734	52.959	-	-	-	-	-	-	-	-	-	-	-	3,897.693
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		3,844.734	52.959	-	-	-	-	-	-	-	-	-	-	-	3,897.693
(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)		63.028	-	-	-	-	-	-	-	-	-	-	-	-	63.897
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.															
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 - Space Vehicle 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 - Space Vehicle End Item Cost</i>	-	-	2,942.839	-	-	-	-	-	-	-	-	-	-	-	-
Checkout and Launch - Checkout And Launch End Item Cost															
GPS IIF Integration	-	-	5.940	-	-	0.050	-	-	-	-	-	-	-	-	-
GPS IIF Launch Services Planning	-	-	243.186	-	-	2.714	-	-	-	-	-	-	-	-	-
GPS IIF Propellants	-	-	5.759	-	-	0.165	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016													
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) : A													MDAP/MAIS Code:													
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																										
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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)								
GPS IIF Storage Reactivation & Transport	-	-	22.092	-	-	6.416	-	-	-	-	-	-	-	-	-	-	-	-								
GPS IIF Technical Mission Analysis	-	-	-	-	-	5.678	-	-	-	-	-	-	-	-	-	-	-	-								
GPS IIF Enterprise SE&I	-	-	364.512	-	-	0.117	-	-	-	-	-	-	-	-	-	-	-	-								
GPS IIF GSA Vehicles	-	-	-	-	-	0.035	-	-	-	-	-	-	-	-	-	-	-	-								
<i>Subtotal: Checkout and Launch - Checkout And Launch End Item Cost</i>	-	-	641.489	-	-	15.175	-	-	-	-	-	-	-	-	-	-	-	-								
Support - On Orbit Support End Item Cost																										
GPS IIF On-Orbit Space Vehicle Support	-	-	146.260	-	-	37.021	-	-	-	-	-	-	-	-	-	-	-	-								
<i>Subtotal: Support - On Orbit Support End Item Cost</i>	-	-	146.260	-	-	37.021	-	-	-	-	-	-	-	-	-	-	-	-								
Support - Support End Item Cost																										
GPS IIF FFRDC	-	-	-	-	-	0.402	-	-	-	-	-	-	-	-	-	-	-	-								
GPS IIF A&AS	-	-	87.387	-	-	0.206	-	-	-	-	-	-	-	-	-	-	-	-								
GPS IIF Other Support	-	-	-	-	-	0.155	-	-	-	-	-	-	-	-	-	-	-	-								
<i>Subtotal: Support - Support End Item Cost</i>	-	-	87.387	-	-	0.763	-	-	-	-	-	-	-	-	-	-	-	-								
Gross/Weapon System Cost	63.028	61	3,844.734	-	-	52.959	-	-	-	-	-	-	-	-	-	-	-	-								
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 - Space Vehicle 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								

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016							
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) : A													MDAP/MAIS Code:							
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 Block IIF Space Vehicle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82.061	12	984.726		
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,942.839		
<i>Subtotal: Space Vehicle - Space Vehicle End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,942.839		
Checkout and Launch - Checkout And Launch End Item Cost																				
GPS IIF Integration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.990		
GPS IIF Launch Services Planning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	245.900		
GPS IIF Propellants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.924		
GPS IIF Storage Reactivation & Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.508		
GPS IIF Technical Mission Analysis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.678		
GPS IIF Enterprise SE&I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	364.629		
GPS IIF GSA Vehicles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.035		
<i>Subtotal: Checkout and Launch - Checkout And Launch End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	656.664		
Support - On Orbit Support End Item Cost																				
GPS IIF On-Orbit Space Vehicle Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	183.281		
<i>Subtotal: Support - On Orbit Support End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	183.281		
Support - Support End Item Cost																				
GPS IIF FFRDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.402		
GPS IIF A&S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87.593		
GPS IIF Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.155		
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88.150		
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.897		
																		61		
																		3,897.693		
Remarks: The Prior Year (PY) 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.																				

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016					
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: N/A						Other Related Program Elements: N/A						
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A													
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total		
Procurement Quantity (<i>Units in Each</i>)		-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Cost (\$ in Millions)		2,465.229	77.815	-	-	-	-	-	-	-	-	-	2,543.044		
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-		
Net Procurement (P-1) (\$ in Millions)		2,465.229	77.815	-	-	-	-	-	-	-	-	-	2,543.044		
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-		
Total Obligation Authority (\$ in Millions)		2,465.229	77.815	-	-	-	-	-	-	-	-	-	2,543.044		
<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: Congress terminated Defense Meteorological Satellite Program (DMSP) Flight-20 via the FY16 Appropriations Bill and resulted in the suspension of all DMSP Flight-20 (F-20) production activities. This included existing contracts and agreements specifically targeted to F-20 pre-launch and remaining launch activities. Subsequently, all remaining F-20 production funds in FY17-18 were removed. The DMSP F-20 satellite and components will be dispositioned in the lowest cost manner as the Air Force brings the program to an orderly close. Contractor support for the on-orbit constellation will continue.															
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.															
Funding for this effort is in PE 0305160F.															

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016		
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: N/A			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-5	Def Meteorological Sat Prog(Space)		A	- / 2,465.229	- / 77.815	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 2,465.229	- / 77.815	- / -	- / -	- / -	- / -

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

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

Justification:

No FY17 funding requested.

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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016						
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) : A												MDAP/MAIS Code:						
Resource Summary				Prior Years		FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total				
Procurement Quantity (<i>Units in Each</i>)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				2,465.229		77.815		-		-		-		-				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				2,465.229		77.815		-		-		-		-				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				2,465.229		77.815		-		-		-		-				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-				
Gross/Weapon System Unit Cost (\$ in Millions)				-		-		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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	121.334	9	1,092.010	-	-	31.500	-	-	-	-	-	-	-	-	-	-	-	
LM Spacecraft Integ & Test--Total Awd Fee	-	-	126.631	-	-	4.700	-	-	-	-	-	-	-	-	-	-	-	
Independent Verif & Validation Tech Spt	-	-	31.204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Consolidated Sensor Support and Services--CLIN 1	-	-	441.617	-	-	15.500	-	-	-	-	-	-	-	-	-	-	-	
NGC Hardware Sensor Spt--CLIN 2	-	-	122.021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NGC Total Award Fee	-	-	45.061	-	-	2.500	-	-	-	-	-	-	-	-	-	-	-	
Sensor Lab Support	-	-	91.466	-	-	3.000	-	-	-	-	-	-	-	-	-	-	-	
LM Spacecraft Battery Option / SAFT CLIN 2	-	-	7.665	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LM Spacecraft Orbital Incentives	-	-	11.672	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NGC Orbital Incentives	-	-	5.094	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,974.441</i>	-	-	<i>57.200</i>	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Space Vehicle - SpaceVehicle End Item Cost</i>	-	-	<i>1,974.441</i>	-	-	<i>57.200</i>	-	-	-	-	-	-	-	-	-	-	-	
Checkout and Launch - CheckoutAndLaunch End Item Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016											
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) : A												MDAP/MAIS Code:											
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																							
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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	-	-	18.306	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-						
EELV Mission Unique Hardware	-	-	30.566	-	-	2.000	-	-	-	-	-	-	-	-	-	-	-						
NGC Launch & Early Orbit Spt-CLIN 3	-	-	7.565	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
<i>Subtotal: Checkout and Launch - CheckoutAndLaunch End Item Cost</i>	-	-	56.437	-	-	2.500	-	-	-	-	-	-	-	-	-	-	-						
Support - Support End Item Cost																							
FFRDC	-	-	312.360	-	-	12.760	-	-	-	-	-	-	-	-	-	-	-						
A&AS	-	-	121.991	-	-	5.355	-	-	-	-	-	-	-	-	-	-	-						
<i>Subtotal: Support - Support End Item Cost</i>	-	-	434.351	-	-	18.115	-	-	-	-	-	-	-	-	-	-	-						
Gross/Weapon System Cost	-	-	2,465.229	-	-	77.815	-	-	-	-	-	-	-	-	-	-	-						

Remarks:

Total MS0554 / Def Meteorological Sat Prog(Space) 3020/3021 funds are \$211.546M (FY15-18).

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016					
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: N/A					Other Related Program Elements: 0604853F							
Line Item MDAP/MAIS Code: 176		Item MDAP/MAIS Code(s): N/A													
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total		
Procurement Quantity (<i>Units in Each</i>)		-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Cost (\$ in Millions)		1,190.964	687.735	-	-	-	-	-	-	-	-	-	1,878.699		
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-		
Net Procurement (P-1) (\$ in Millions)		1,190.964	687.735	-	-	-	-	-	-	-	-	-	1,878.699		
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-		
Total Obligation Authority (\$ in Millions)		1,190.964	687.735	-	-	-	-	-	-	-	-	-	1,878.699		
<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: As of the Fiscal Year 2016 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 Fiscal Year 2016 and beyond. This exhibit will display values in Prior Years, PY, CY, and Total (for MPAF/3020) only; Fiscal Year 2016 and beyond is displayed in the corresponding SPAF/3021 exhibits. Total Evolved Expendable Launch Veh (Infrastructure) procurement funding is \$14,265.199M															
The Air Force requests funding for the Evolved Expendable Launch Vehicle (EELV) program in two separate P-1 line items in compliance with the Fiscal Years 2013 and 2014 Appropriations Acts. 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).															
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 provide flexibility to meet NSS requirements, Air Force acquires launch services through a white tail concept where designating configurations to specific missions in the same launch vehicle family is accomplished just-in-time to meet mission integration requirements.															
The Air Force is currently focused on awarding competed launch services using funds from the Launch Services appropriation in Fiscal Year 2015 - 2017. The first award is scheduled for March 2016. The corresponding launch capability funding for competitive launches from this appropriation is funded in the year of award of the launch service.															

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016		
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: N/A					
Line Item MDAP/MAIS Code: 176		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-5	EVOLVED EXPENDABLE LAUNCH CAPABILITY	P-5a	A	- / 1,190.964	- / 687.735	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			- / 1,190.964	- / 687.735	- / -	- / -	- / -	- / -
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	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)
P-5	EVOLVED EXPENDABLE LAUNCH CAPABILITY	P-5a	A	- / -	- / -	- / -	- / -	- / -	- / 1,878.699
P-40	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 sum exactly due to rounding.

Justification:

No Fiscal Year 2017 funding requested in 3020 MPAF.

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016						
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) : A												MDAP/MAIS Code:						
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total					
Procurement Quantity (<i>Units in Each</i>)		-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (\$ in Millions)		1,190.964	687.735	-	-	-	-	-	-	-	-	-	-	1,878.699				
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-	-				
Net Procurement (P-1) (\$ in Millions)		1,190.964	687.735	-	-	-	-	-	-	-	-	-	-	1,878.699				
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-	-				
Total Obligation Authority (\$ in Millions)		1,190.964	687.735	-	-	-	-	-	-	-	-	-	-	1,878.699				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-	-				
Gross/Weapon System Unit Cost (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-	-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years		FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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 ^(†)	1,186.503	1	1,186.503	683.378	1	683.378	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Recurring Cost</i>	-	-	1,186.503	-	-	683.378	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Launch - Launch End Item Cost</i>	-	-	1,186.503	-	-	683.378	-	-	-	-	-	-	-	-	-	-	-	
Support - Support End Item Cost																		
Other Support	-	-	0.461	-	-	0.524	-	-	-	-	-	-	-	-	-	-	-	
Independent Readiness Review Team	-	-	4.000	-	-	3.833	-	-	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Support - Support End Item Cost</i>	-	-	4.461	-	-	4.357	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Cost	-	-	1,190.964	-	-	687.735	-	-	-	-	-	-	-	-	-	-	-	
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 Capability ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	934.941	2	1,869.881

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016				
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) : A													MDAP/MAIS Code:				
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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)
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,869.881
<i>Subtotal: Launch - Launch End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,869.881
Support - Support End Item Cost																	
Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.985
Independent Readiness Review Team	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.833
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.818
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).

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
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 (Each)	Unit Cost (\$ M)	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

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016					
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: N/A					Other Related Program Elements: 0604853F							
Line Item MDAP/MAIS Code: 176		Item MDAP/MAIS Code(s): N/A													
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total		
Procurement Quantity (<i>Units in Each</i>)		41	4 ⁽¹⁾	-	-	-	-	-	-	-	-	-	45		
Gross/Weapon System Cost (\$ in Millions)		10,995.432	732.000	-	-	-	-	-	-	-	-	-	11,727.432		
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-		
Net Procurement (P-1) (\$ in Millions)		10,995.432	732.000	-	-	-	-	-	-	-	-	-	11,727.432		
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-	-	-	-	-	-	-		
Total Obligation Authority (\$ in Millions)		10,995.432	732.000	-	-	-	-	-	-	-	-	-	11,727.432		
(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)		268.181	183.000	-	-	-	-	-	-	-	-	-	260.610		
Description:															
As of the FY2016 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 Fiscal Year 2016 and beyond. This exhibit will display values in Prior Years, PY, CY, and Total (for 2020) 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 \$26,642.747M.															
The Air Force requests funding for the Evolved Expendable Launch Vehicle (EELV) program in two separate P-1 line items in compliance with Fiscal Years 2013 and 2014 Appropriation Acts. 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 Evolved Expendable Launch Veh (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 provide flexibility to meet NSS requirements, the Air Force acquires launch services through a white tail concept, where designating configurations to specific missions in the same launch vehicle family is accomplished just-in-time to meet mission integration requirements.															
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 which has so far resulted in the certification of one New Entrant. The Air Force continues to actively work with potential New Entrants to reliably launch NSS requirements. Air Force awards integration studies when New Entrants demonstrate a successful launch.															

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force		Date: February 2016
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: N/A	Other Related Program Elements: 0604853F
Line Item MDAP/MAIS Code: 176	Item MDAP/MAIS Code(s): N/A	The Air Force is currently focused on awarding competed launch services using funds from this appropriation in Fiscal Year 2015 - 2017. The first award is scheduled for March 2016.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016		
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: N/A					
Line Item MDAP/MAIS Code: 176		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-5	Evolved Expendable Launch Veh(Space)	P-5a, P-21	A	41 / 10,995.432	4 / 732.000	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			41 / 10,995.432	4 / 732.000	- / -	- / -	- / -	- / -
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	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)
P-5	Evolved Expendable Launch Veh(Space)	P-5a, P-21	A	- / -	- / -	- / -	- / -	- / -	45 / 11,727.432
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	45 / 11,727.432

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

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

Justification:

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.).

Footnotes:

(¹) Due to an inadvertent error the quantities for FY15 were loaded in the Space Procurement, Air Force appropriation. Thus, the quantities for FY15 in this exhibit do not match the P-1 exhibit.

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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016			
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) : A												MDAP/MAIS Code:			
Resource Summary			Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
Procurement Quantity (<i>Units in Each</i>)			41	4	-	-	-	-	-	-	-	-	-	-	45
Gross/Weapon System Cost (\$ in Millions)			10,995.432	732.000	-	-	-	-	-	-	-	-	-	-	11,727.432
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)			10,995.432	732.000	-	-	-	-	-	-	-	-	-	-	11,727.432
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)			10,995.432	732.000	-	-	-	-	-	-	-	-	-	-	11,727.432
(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)			268.181	183.000	-	-	-	-	-	-	-	-	-	-	260.610
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.															
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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 ^(†)	112.541	41	4,614.186	143.335	4	573.342	-	-	-	-	-	-	-	-	-
Launch Capability	-	-	4,842.649	-	-	-	-	-	-	-	-	-	-	-	-
EELV Enterprise Systems Engineering & Integration	-	-	64.870	-	-	18.202	-	-	-	-	-	-	-	-	-
Mission Assurance	-	-	722.266	-	-	130.572	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>10,243.971</i>	-	-	<i>722.116</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Launch - Launch End Item Cost</i>	-	-	<i>10,243.971</i>	-	-	<i>722.116</i>	-	-	-	-	-	-	-	-	-
Support - Support End Item Cost															
Other Support	-	-	105.283	-	-	2.520	-	-	-	-	-	-	-	-	-
A&AS	-	-	166.528	-	-	7.364	-	-	-	-	-	-	-	-	-
Assured Access	-	-	479.650	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - Support End Item Cost</i>	-	-	<i>751.461</i>	-	-	<i>9.884</i>	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	268.181	41	10,995.432	183.000	4	732.000	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2017 Air Force														Date: February 2016					
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) : A														MDAP/MAIS Code:					
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115.278	45	5,187.528
Launch Capability	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,842.649
EELV Enterprise Systems Engineering & Integration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83.072
Mission Assurance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	852.838
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,966.087
<i>Subtotal: Launch - Launch End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,966.087
Support - Support End Item Cost																			
Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107.803
A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	173.892
Assured Access	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	479.650
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	761.345
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	260.610	45	11,727.432
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.																			
A Memorandum of Understanding (MOU) between the NRO and the Air Force, dated 7 October 2011, specified a 60/40 Air Force/NRO share ratio for Federally Funded Research and Development Center (FFRDC) Mission Assurance.																			
All non-Air Force launch services are funded by their respective agencies.																			
Fiscal Year 2015 does not include a rescission of \$125M Congressional Add for an additional competitive opportunity.																			
(†) indicates the presence of a P-5a																			

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016					
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)/ CO/ Space X/CA / CO/Various		Various	SMC, LA AFB, CA	Jan 2015	Jan 2017	4	143.335	Y		Mar 2012

(†) indicates the presence of a P-21

Remarks:

The Air Force plans to compete selected launch services beginning with the Fiscal year 2015 appropriation with the first award scheduled for March 2016.

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																			
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 (Units in Each)										Fiscal Year 2012										Fiscal Year 2013										B A L A N C E										
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	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										
Launch Services										Calendar Year 2012										Calendar Year 2013																				
Prior Years Deliveries: 27										1	2012	AF ⁽²⁾	5	-	5		A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5					
2	2013	AF		4	-	4																													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							

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Exhibit P-21, Production Schedule: PB 2017 Air Force																			Date: February 2016																
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:															
3020F / 05 / 1										MSEELV / Evolved Expendable Launch Veh(Space)										- / Evolved Expendable Launch Veh(Space)															
Cost Elements (Units in Each)										Fiscal Year 2014										Fiscal Year 2015										BALANCE					
O C O #	M F R	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
Launch Services																																			
Prior Years Deliveries: 27																																			
1	2012	AF	(2)	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
										OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		

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Exhibit P-21, Production Schedule: PB 2017 Air Force																				Date: February 2016																			
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 (Units in Each)					Fiscal Year 2016												Fiscal Year 2017												B A L A N C E										
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	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									
Launch Services					Calendar Year 2016												Calendar Year 2017																						
Prior Years Deliveries: 27					1	2012	AF ⁽²⁾	5	3	2	-	-	-	-	-	1	-	-	-	1													-						
2	2013	AF			4		2	2		2													-																
3	2014	AF			5	-	5	-	-	4	-	-	-	-	-	-	1													-									
4	2015	AF			4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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											

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

Date: February 2016

Appropriation / Budget Activity / Budget Sub Activity:
3020F / 05 / 1

P-1 Line Item Number / Title:

Item Number / Title [DODIC]:
- / Evolved Expendable Launch
Veh(Space)

Cost Elements (Units in Each)							Fiscal Year 2018												Fiscal Year 2019												BALANCE			
O	M	F	R	#	FY	Service	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
O	C	O	R	#	FY	Service	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
Launch Services																																		
Prior Years Deliveries: 27																																		
1	2012	AF	(2)		5	5	-																								-			
2	2013	AF			4	4	-																								-			
3	2014	AF			5	5	-																							-				
4	2015	AF			4	2	2		-	-	-	-	-	-	-	-	2													-				
										OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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Exhibit P-21, Production Schedule: PB 2017 Air Force										Date: February 2016			
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 #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	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)CO/ Space X/CA - CO/ Various	3	10	10	-	-	-	-	-	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:

(2) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2014 loaded in the month of first delivery.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016			
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: N/A							Other Related Program Elements: 0604441F			
Line Item MDAP/MAIS Code: 210		Item MDAP/MAIS Code(s): N/A											
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total	
Procurement Quantity (<i>Units in Each</i>)	6	-	-	-	-	-	-	-	-	-	-	-	6
Gross/Weapon System Cost (\$ in Millions)	4,859.993	444.567	-	-	-	-	-	-	-	-	-	-	5,304.560
Less PY Advance Procurement (\$ in Millions)	1,210.092	-	-	-	-	-	-	-	-	-	-	-	1,210.092
Net Procurement (P-1) (\$ in Millions)	3,649.901	444.567	-	-	-	-	-	-	-	-	-	-	4,094.468
Plus CY Advance Procurement (\$ in Millions)	1,210.092	-	-	-	-	-	-	-	-	-	-	-	1,210.092
Total Obligation Authority (\$ in Millions)	4,859.993	444.567	-	-	-	-	-	-	-	-	-	-	5,304.560
<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)	809.999	-	-	-	-	-	-	-	-	-	-	-	884.093
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, and Total (for 2020)" only; FY16 and beyond is displayed in the corresponding SPAF/3021 exhibits. Total 3020/3021 procurement funding is \$7,354.555M.													
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.													
The Space Based Infrared System's (SBIRS) 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 Dec 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 associated with aligning the SBIRS launches to the earliest assigned Initial Launch Capability (ILC) date of Apr 2016, the GEO-3 satellite completed production and was placed into storage in Jul 2015. The GEO-4 satellite is manifested for launch as the third flight (GEO-4 Flight-3) in Jul 2016. The GEO-3 (Flight-4) satellite is projected to launch not-earlier-than 4th quarter FY17.													
GEO-5 and 6 production contract was modified in Jun 2015 to modernize the existing spacecraft bus design to improve commonality across Air Force and Government satellite programs, and enable compatibility with multiple launch vehicles. GEO-5 and 6 satellites are derivatives of the GEO-3 and 4 satellites and will be replacements for GEO-1 and 2. A four phased contract approach awarded non-recurring engineering and parts obsolescence using advanced procurement funds in Sep 2012, followed by award of long lead items in Feb 2013, full production in Jun 2014, and technical refresh in Jun 2015. The full production effort includes 2 satellites with persistent infrared missile and threat warning payloads, launch vehicle integration, launch and early orbit test, dual communication 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 2017 Air Force		Date: February 2016
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: N/A	Other Related Program Elements: 0604441F
Line Item MDAP/MAIS Code: 210	Item MDAP/MAIS Code(s): N/A	
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.		
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. The HEO-3 payload is on-orbit and has completed its initial checkout. The HEO-4 payload was delivered to the classified host in May 2015.		
To complete costs are zero; the last year of GEO-5/6 funding is FY21.		
Total GEO 3-4 3020/3021 funds are \$2,845.684M. Total GEO 5-6 3020/3021 funds are \$3,359.825M. Total HEO 3-4 3020/3021 funds are \$1,149.046M.		

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force							Date: February 2016		
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: N/A					
Line Item MDAP/MAIS Code: 210		Item MDAP/MAIS Code(s): N/A							
Exhibits Schedule				Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Exhibit Type	Title*	Subexhibits	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)
P-5	GEO 3-4	P-5a, P-21	A	2 / 2,564.341	- / 95.189	- / -	- / -	- / -	- / -
P-5	GEO 5-6	P-5a, P-21	A	2 / 1,220.480	- / 313.895	- / -	- / -	- / -	- / -
P-5	HEO 3-4	P-5a, P-21	A	2 / 1,075.172	- / 35.483	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost			6 / 4,859.993	- / 444.567	- / -	- / -	- / -	- / -
Exhibits Schedule				FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Exhibit Type	Title*	Subexhibits	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)
P-5	GEO 3-4	P-5a, P-21	A	- / -	- / -	- / -	- / -	- / -	2 / 2,659.530
P-5	GEO 5-6	P-5a, P-21	A	- / -	- / -	- / -	- / -	- / -	2 / 1,534.375
P-5	HEO 3-4	P-5a, P-21	A	- / -	- / -	- / -	- / -	- / -	2 / 1,110.655
P-40	Total Gross/Weapon System Cost			- / -	- / -	- / -	- / -	- / -	6 / 5,304.560

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

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

Justification:

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

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Exhibit P-5, Cost Analysis: PB 2017 Air Force											Date: February 2016							
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) : A											MDAP/MAIS Code:							
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total					
Procurement Quantity (<i>Units in Each</i>)		2	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
Gross/Weapon System Cost (\$ in Millions)		2,564.341	95.189	-	-	-	-	-	-	-	-	-	-	-	-	2,659.530		
Less PY Advance Procurement (\$ in Millions)		545.127	-	-	-	-	-	-	-	-	-	-	-	-	-	545.127		
Net Procurement (P-1) (\$ in Millions)		2,019.214	95.189	-	-	-	-	-	-	-	-	-	-	-	-	2,114.403		
Plus CY Advance Procurement (\$ in Millions)		545.127	-	-	-	-	-	-	-	-	-	-	-	-	-	545.127		
Total Obligation Authority (\$ in Millions)		2,564.341	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)		1,282.171	-	-	-	-	-	-	-	-	-	-	-	-	-	1,329.765		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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	-	-	1,411.659	-	-	7.791	-	-	-	-	-	-	-	-	-	-	-	-
GEO 3-4 Integration and Assembly	-	-	405.806	-	-	20.529	-	-	-	-	-	-	-	-	-	-	-	-
GEO 3-4 Enterprise Systems Engineering & Integration (SE&I)	-	-	31.870	-	-	7.885	-	-	-	-	-	-	-	-	-	-	-	-
GEO 3-4 Satellites ^(†)	1,423.334	2	2,846.667	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEO 3-4 Satellites Debit	-	-	-2,846.667	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,849.335</i>	-	-	<i>36.205</i>	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Cost																		
GEO 3-4 Obsolescence Non-Recurring	-	-	450.511	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEO 3-4 Launch Vehicle and Range Integration	-	-	0.303	-	-	18.548	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>450.814</i>	-	-	<i>18.548</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Space Vehicle - GEO 3-4 Cost</i>	-	-	<i>2,300.149</i>	-	-	<i>54.753</i>	-	-	-	-	-	-	-	-	-	-	-	-
Checkout and Launch - GEO 3-4 Cost																		

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016															
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) : A													MDAP/MAIS Code:															
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																												
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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	-	-	105.035	-	-	30.612	-	-	-	-	-	-	-	-	-	-	-	-										
Interim Contractor Support (ICS)	-	-	21.753	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Subtotal: Checkout and Launch - GEO 3-4 Cost</i>	-	-	126.788	-	-	30.612	-	-	-	-	-	-	-	-	-	-	-	-										
Support - GEO 3-4 Cost																												
Other Support	-	-	23.506	-	-	1.242	-	-	-	-	-	-	-	-	-	-	-	-										
FFRDC	-	-	56.842	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
A&AS	-	-	57.056	-	-	8.582	-	-	-	-	-	-	-	-	-	-	-	-										
<i>Subtotal: Support - GEO 3-4 Cost</i>	-	-	137.404	-	-	9.824	-	-	-	-	-	-	-	-	-	-	-	-										
Gross/Weapon System Cost	1,282.171	2	2,564.341	-	-	95.189	-	-	-	-	-	-	-	-	-	-	-	-										
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,419.450										
GEO 3-4 Integration and Assembly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	426.335										
GEO 3-4 Enterprise Systems Engineering & Integration (SE&I)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.755										
GEO 3-4 Satellites ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,423.334										
GEO 3-4 Satellites Debit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-2,846.667										
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,885.540										
Non Recurring Cost																												
GEO 3-4 Obsolescence Non-Recurring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	450.511										
GEO 3-4 Launch Vehicle and Range Integration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.851										
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	469.362										

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016							
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) : A													MDAP/MAIS Code:							
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 - GEO 3-4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,354.902		
Checkout and Launch - GEO 3-4 Cost																				
GEO 3-4 Launch Ops & Checkout	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	135.647		
Interim Contractor Support (ICS)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.753		
<i>Subtotal: Checkout and Launch - GEO 3-4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	157.400		
Support - GEO 3-4 Cost																				
Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.748		
FFRDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56.842		
A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65.638		
<i>Subtotal: Support - GEO 3-4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	147.228		
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,329.765	2	2,659.530		
Remarks: Total GEO 3-4 3020/3021 funds are \$2,845.684M.																				
(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
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	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
GEO 3-4 Satellites ⁽¹⁾		2009 ⁽¹⁾	Lockheed Martin Space Systems / Sunnyvale, CA	SS / BA	LAAFB, CA	Mar 2008 ⁽²⁾	Jul 2017	1	1,846.754	Y		Jul 2007
GEO 3-4 Satellites ⁽¹⁾		2011 ⁽³⁾	Lockheed Martin Space Systems / Sunnyvale, CA	SS / BA	LAAFB, CA	Jul 2009 ⁽⁴⁾	May 2016	1	998.930	Y		Jul 2007

^(t) 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) Contract award date based on obligation of Advance Procurement

(3) GEO-4 Satellite

(4) Contract award date based on obligation of Advance Procurement

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																									
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 (Units in Each)						Fiscal Year 2008															Fiscal Year 2009																									
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2007	BAL DUE AS OF 1 OCT	Calendar Year 2008															Calendar Year 2009															B A L A N C E										
GEO 3-4 Satellites						1	2009	AF	1	-	1	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1								
						1	2011	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																	

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

Date: February 2016

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 (Units in Each)					Fiscal Year 2010															Fiscal Year 2011															BALANCE		
O 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															BALANCE
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
GEO 3-4 Satellites																																					
1	2009	AF		1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1	2011	AF		1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							

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

Date: February 2016

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 (Units in Each)						Fiscal Year 2012												Fiscal Year 2013												BALANCE	
O 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												BALANCE
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
GEO 3-4 Satellites																															
1	2009	AF		1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1	2011	AF		1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
						OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																			
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 (Units in Each)							Fiscal Year 2014												Fiscal Year 2015																					
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	FY	O C T	N O V	D E C	J A N	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 A N C E									
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										

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																			
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 (Units in Each)							Fiscal Year 2016												Fiscal Year 2017																					
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	FY	O C T	N O V	D E C	J A N	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 A N C E									
GEO 3-4 Satellites																																								
1	2009	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-						
1	2011	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						

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Exhibit P-21, Production Schedule: PB 2017 Air Force										Date: February 2016					
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						
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)										
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder						
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1			
1	Lockheed Martin Space Systems - Sunnyvale, CA	-	-	-	-	-	-	-	-	-	-	-			

Remarks:

SBIRS GEO-4 (Flight #3) is scheduled for delivery in May 2016. SBIRS GEO-3 (Flight #4) completed production and was placed into storage on July 14, 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).

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Exhibit P-5, Cost Analysis: PB 2017 Air Force											Date: February 2016					
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) : A											MDAP/MAIS Code:					
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total			
Procurement Quantity (<i>Units in Each</i>)		2	-	-	-	-	-	-	-	-	-	-	-	-	2	
Gross/Weapon System Cost (\$ in Millions)		1,220.480	313.895	-	-	-	-	-	-	-	-	-	-	-	1,534.375	
Less PY Advance Procurement (\$ in Millions)		486.814	-	-	-	-	-	-	-	-	-	-	-	-	486.814	
Net Procurement (P-1) (\$ in Millions)		733.666	313.895	-	-	-	-	-	-	-	-	-	-	-	1,047.561	
Plus CY Advance Procurement (\$ in Millions)		486.814	-	-	-	-	-	-	-	-	-	-	-	-	486.814	
Total Obligation Authority (\$ in Millions)		1,220.480	313.895	-	-	-	-	-	-	-	-	-	-	-	1,534.375	
(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)		610.240	-	-	-	-	-	-	-	-	-	-	-	-	767.188	
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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	-	-	1,441.119	-	-	187.869	-	-	-	-	-	-	-	-	-	
GEO 5-6 Integration and Assembly	-	-	368.946	-	-	23.599	-	-	-	-	-	-	-	-	-	
FY15 Incremental Funding	-	-	-211.468	-	-	-	-	-	-	-	-	-	-	-	-	
FY16 Incremental Funding (3021)	-	-	-274.007	-	-	-	-	-	-	-	-	-	-	-	-	
FY17 Incremental Funding (3021)	-	-	-118.766	-	-	-	-	-	-	-	-	-	-	-	-	
FY18 Incremental Funding (3021)	-	-	-402.874	-	-	-	-	-	-	-	-	-	-	-	-	
GEO 5-6 Satellites ^(t)	1,679.913	2	3,359.826	-	-	-	-	-	-	-	-	-	-	-	-	
GEO 5-6 Satellites Debit	-	-	-3,359.826	-	-	-	-	-	-	-	-	-	-	-	-	
GEO 5-6 Systems Engineering & Integration (SE&I)	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-	
Technical Mission Analysis	-	-	-	-	-	12.275	-	-	-	-	-	-	-	-	-	
<i>Subtotal: Recurring Cost</i>	-	-	802.950	-	-	223.743	-	-	-	-	-	-	-	-	-	
Non Recurring Cost																

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Exhibit P-5, Cost Analysis: PB 2017 Air Force												Date: February 2016											
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) : A												MDAP/MAIS Code:											
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																							
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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	-	-	59.461	-	-	-	-	-	-	-	-	-	-	-	-					
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	-	-	0.286	-	-	0.550	-	-	-	-	-	-	-	-	-	-	-	-					
<i>Subtotal: Non Recurring Cost</i>	-	-	359.194	-	-	60.011	-	-	-	-	-	-	-	-	-	-	-	-					
<i>Subtotal: Space Vehicle - GEO 5-6 Cost</i>	-	-	1,162.144	-	-	283.754	-	-	-	-	-	-	-	-	-	-	-	-					
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	-	-	30.141	-	-	-	-	-	-	-	-	-	-	-	-					
Support - GEO 5-6 Cost																							
Other Support	-	-	16.789	-	-	7.756	-	-	-	-	-	-	-	-	-	-	-	-					
FFRDC	-	-	41.517	-	-	21.635	-	-	-	-	-	-	-	-	-	-	-	-					
A&AS	-	-	0.030	-	-	0.750	-	-	-	-	-	-	-	-	-	-	-	-					
<i>Subtotal: Support - GEO 5-6 Cost</i>	-	-	58.336	-	-	30.141	-	-	-	-	-	-	-	-	-	-	-	-					
<i>Gross/Weapon System Cost</i>	610.240	2	1,220.480	-	-	313.895	-	-	-	-	-	-	-	-	-	-	-	-					
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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																							

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Exhibit P-5, Cost Analysis: PB 2017 Air Force														Date: February 2016					
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	ID Code (A=Service Ready, B=Not Service Ready) : A						MDAP/MAIS Code:												
	FY 2018	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	FY 2019	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	FY 2020	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	FY 2021	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	To Complete	Total Cost	
Recurring Cost																			
GEO 5-6 Hardware	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,628.988	
GEO 5-6 Integration and Assembly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	392.545	
FY15 Incremental Funding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-211.468	
FY16 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-274.007	
FY17 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-118.766	
FY18 Incremental Funding (3021)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-402.874	
GEO 5-6 Satellites ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,679.913	2	3,359.826
GEO 5-6 Satellites Debit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-3,359.826
GEO 5-6 Systems Engineering & Integration (SE&I)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Technical Mission Analysis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.275	
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,026.693	
Non Recurring Cost																			
GEO 5-6 Obsolescence Non-Recurring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	521.285	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.836	
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	419.205	
<i>Subtotal: Space Vehicle - GEO 5-6 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,445.898	
Checkout and Launch - GEO 5-6 Cost																			

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016							
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) : A													MDAP/MAIS Code:							
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 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																				
Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.545		
FFRDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.152		
A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.780		
<i>Subtotal: Support - GEO 5-6 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	88.477		
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	767.188	2	1,534.375		

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 \$2,658.9M 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 \$3,359.825M.

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
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	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
GEO 5-6 Satellites ^(†)		2013	Lockheed Martin Space Systems / Sunnyvale, CA	SS / BA	LAAFB, CA	Jun 2014	Sep 2020	2	1,679.912	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 2017 Air Force																					Date: February 2016																							
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 (Units in Each)						Fiscal Year 2014												Fiscal Year 2015																										
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	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	Calendar Year 2014														
GEO 5-6 Satellites																																										BAL ANCE		
1	2013	AF	2	-	2													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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	Calendar Year 2015																				

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																							
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 (Units in Each)							Fiscal Year 2016												Fiscal Year 2017																									
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	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	Calendar Year 2016														
GEO 5-6 Satellites																																												BAL ANCE
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														

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																						
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 (Units in Each)							Fiscal Year 2018												Fiscal Year 2019																								
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	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	Calendar Year 2018													
GEO 5-6 Satellites																																											BAL ANCE
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													

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																					
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 (Units in Each)							Fiscal Year 2020												Fiscal Year 2021																							
O C R O #	M F #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	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	Calendar Year 2020											
GEO 5-6 Satellites																																										B A L A N C E
1	2013	AF	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	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												

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Exhibit P-21, Production Schedule: PB 2017 Air Force										Date: February 2016					
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						
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)										
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial				Reorder						
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1			
1	Lockheed Martin Space Systems - Sunnyvale, CA	-	-	-	-	-	-	-	-	-	-	-			

Remarks:

SBIRS GEO-5 is scheduled for delivery in Sep 2020. SBIRS GEO-6 is scheduled for delivery in Jul 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 2017 Air Force											Date: February 2016				
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) : A											MDAP/MAIS Code:				
Resource Summary		Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total		
Procurement Quantity (<i>Units in Each</i>)		2	-	-	-	-	-	-	-	-	-	-	-	-	2
Gross/Weapon System Cost (\$ in Millions)		1,075.172	35.483	-	-	-	-	-	-	-	-	-	-	-	1,110.655
Less PY Advance Procurement (\$ in Millions)		178.151	-	-	-	-	-	-	-	-	-	-	-	-	178.151
Net Procurement (P-1) (\$ in Millions)		897.021	35.483	-	-	-	-	-	-	-	-	-	-	-	932.504
Plus CY Advance Procurement (\$ in Millions)		178.151	-	-	-	-	-	-	-	-	-	-	-	-	178.151
Total Obligation Authority (\$ in Millions)		1,075.172	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)		537.586	-	-	-	-	-	-	-	-	-	-	-	-	555.328
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.															
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	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	-	-	351.240	-	-	-	-	-	-	-	-	-	-	-	-
HEO 3-4 Integration and Assembly	-	-	199.338	-	-	-	-	-	-	-	-	-	-	-	-
HEO 3-4 Enterprise Systems Engineering & Integration (SE&I)	-	-	17.487	-	-	6.827	-	-	-	-	-	-	-	-	-
HEO 3-4 Payloads ^(†)	574.635	2	1,149.269	-	-	-	-	-	-	-	-	-	-	-	-
HEO 3-4 Payloads Debit	-	-	-1,149.269	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>568.065</i>	-	-	<i>6.827</i>	-	-	-	-	-	-	-	-	-
Non Recurring Cost															
HEO 3-4 Obsolescence Non-Recurring	-	-	158.796	-	-	-	-	-	-	-	-	-	-	-	-
HEO 3-4 Launch Vehicle and Range Integration	-	-	3.376	-	-	0.232	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	<i>162.172</i>	-	-	<i>0.232</i>	-	-	-	-	-	-	-	-	-
<i>Subtotal: Space Vehicle - HEO 3-4 Cost</i>	-	-	<i>730.237</i>	-	-	<i>7.059</i>	-	-	-	-	-	-	-	-	-
Checkout and Launch - HEO 3-4 Cost															

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016													
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) : A													MDAP/MAIS Code:													
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																										
Cost Elements	Prior Years			FY 2015			FY 2016			FY 2017 Base			FY 2017 OCO			FY 2017 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	-	-	234.367	-	-	2.855	-	-	-	-	-	-	-	-	-	-	-	-								
HEO 3-4 Launch Ops & Checkout	-	-	42.141	-	-	12.567	-	-	-	-	-	-	-	-	-	-	-	-								
<i>Subtotal: Checkout and Launch - HEO 3-4 Cost</i>	-	-	276.508	-	-	15.422	-	-	-	-	-	-	-	-	-	-	-	-								
Support - HEO 3-4 Cost																										
Other Support	-	-	10.778	-	-	1.076	-	-	-	-	-	-	-	-	-	-	-	-								
FFRDC	-	-	25.179	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
A&AS	-	-	32.470	-	-	11.926	-	-	-	-	-	-	-	-	-	-	-	-								
<i>Subtotal: Support - HEO 3-4 Cost</i>	-	-	68.427	-	-	13.002	-	-	-	-	-	-	-	-	-	-	-	-								
Gross/Weapon System Cost	537.586	2	1,075.172	-	-	35.483	-	-	-	-	-	-	-	-	-	-	-	-								
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	351.240								
HEO 3-4 Integration and Assembly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199.338								
HEO 3-4 Enterprise Systems Engineering & Integration (SE&I)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.314								
HEO 3-4 Payloads ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	574.635	2	1,149.269							
HEO 3-4 Payloads Debit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-1,149.269								
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	574.892								
Non Recurring Cost																										
HEO 3-4 Obsolescence Non-Recurring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158.796								
HEO 3-4 Launch Vehicle and Range Integration	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.608								
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	162.404								

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Exhibit P-5, Cost Analysis: PB 2017 Air Force													Date: February 2016							
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) : A													MDAP/MAIS Code:							
Cost Elements	FY 2018			FY 2019			FY 2020			FY 2021			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 - HEO 3-4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	737.296		
Checkout and Launch - HEO 3-4 Cost																				
HEO Host Accommodation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	237.222		
HEO 3-4 Launch Ops & Checkout	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.708		
<i>Subtotal: Checkout and Launch - HEO 3-4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	291.930		
Support - HEO 3-4 Cost																				
Other Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.854		
FFRDC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.179		
A&AS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44.396		
<i>Subtotal: Support - HEO 3-4 Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	81.429		
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	555.328	2	1,110.655		
Remarks: Total HEO 3-4 3020/3021 funds are \$1,149.046M.																				
(†) indicates the presence of a P-5a																				

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Exhibit P-5a, Procurement History and Planning: PB 2017 Air Force								Date: February 2016				
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	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
HEO 3-4 Payloads ^(t)		2009 ⁽⁵⁾	Lockheed Martin Space Systems / Sunnyvale, CA	SS / BA	LAAFB, CA	Mar 2008	Jun 2013	1	734.323	Y		Jul 2007
HEO 3-4 Payloads ^(t)		2010 ⁽⁶⁾	Lockheed Martin Space Systems / Sunnyvale, CA	SS / BA	LAAFB, CA	Jul 2009	May 2015	1	414.723	Y		Jul 2007

^(t) 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:

⁽⁵⁾ HEO-3 Payload

⁽⁶⁾ HEO-4 Payload

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																													
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 (Units in Each)							Fiscal Year 2008												Fiscal Year 2009																															
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2007	BAL DUE AS OF 1 OCT	FY	Calendar Year 2008												Calendar Year 2009																															
O C T	N O V	D E C	J A N	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 A N C E																										
1	2009	AF ⁽⁷⁾	1	-	1		A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1																
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	A -	-	-	-	-	1														
HEO 3-4 Payloads																																																		

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

Date: February 2016

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 (Units in Each)						Fiscal Year 2010												Fiscal Year 2011												BALANCE	
O 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												BALANCE
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
HEO 3-4 Payloads																															
1	2009	AF ⁽⁷⁾		1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1	2010	AF		1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																			
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 (Units in Each)							Fiscal Year 2012												Fiscal Year 2013																					
O C R O #	M F R Y	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	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 A N C E										
HEO 3-4 Payloads																																								
1	2009	AF ⁽⁷⁾	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1	2010	AF	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

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Exhibit P-21, Production Schedule: PB 2017 Air Force																					Date: February 2016																													
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 (Units in Each)							Fiscal Year 2014												Fiscal Year 2015																															
O C R O #	M F #	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 A N C E																
HEO 3-4 Payloads																																																		
1	2009	AF ⁽⁷⁾	1	1	-																																			-										
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																											

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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				
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2017	1-8-5 For 2017	MAX For 2017	Initial			Reorder				
1	Lockheed Martin Space Systems - Sunnyvale, CA	-	-	-	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1

Remarks:

SBIRS HEO-3 payload was delivered in June 2013. SBIRS HEO-4 payload was delivered in May 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:

(7) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2014 loaded in the month of first delivery.

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Exhibit P-40, Budget Line Item Justification: PB 2017 Air Force										Date: February 2016							
Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 4: Special Programs										P-1 Line Item Number / Title: MSPPRG / Special Update Programs							
ID Code (A=Service Ready, B=Not Service Ready): A			Program Elements for Code B Items: N/A						Other Related Program Elements: N/A								
Line Item MDAP/MAIS Code: N/A																	
Resource Summary	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total					
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-					
Gross/Weapon System Cost (\$ in Millions)	-	60.179	276.562	46.125	-	46.125	30.929	297.829	449.660	571.388	-	1,732.672					
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-					
Net Procurement (P-1) (\$ in Millions)	-	60.179	276.562	46.125	-	46.125	30.929	297.829	449.660	571.388	-	1,732.672					
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-					
Total Obligation Authority (\$ in Millions)	-	60.179	276.562	46.125	-	46.125	30.929	297.829	449.660	571.388	-	1,732.672					
<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: 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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