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**Department of Defense  
Fiscal Year (FY) 2018 Budget Estimates**

May 2017



**Air Force**

*Justification Book Volume 1 of 1*

***Missile Procurement, Air Force***

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Air Force • Budget Estimates FY 2018 • Procurement

**Volume 1 Table of Contents**

Introduction and Explanation of Contents.....	Volume 1 - iii
Comptroller Exhibit P-1.....	Volume 1 - v
Line Item Table of Contents (by Appropriation then Line Number).....	Volume 1 - xxv
Line Item Table of Contents (Alphabetically by Line Item Title).....	Volume 1 - xxix
Exhibit P-1, Procurement Program.....	Volume 1 - xxxi
Exhibit P-1M, Procurement Programs - Modification Summary.....	Volume 1 - xxxv
Acronyms.....	Volume 1 - xxxix
Exhibit P-40s.....	Volume 1 - 1

**UNCLASSIFIED**

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UNCLASSIFIED

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**Appropriation Language  
Fiscal Year (FY) 2018 President's Budget Request  
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, \$2,691,582,000, to remain available for obligations until September 30, 2020.

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Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation -----	FY 2016 Base + OCO -----	FY 2017 PB Request with CR Adj Base -----	FY 2017 Total PB Requests* with CR Adj Base -----
Aircraft Procurement, Air Force	15,948,514	15,722,662	17,570,182
Missile Procurement, Air Force	3,188,714	2,904,680	2,904,680
Space Procurement, Air Force	2,811,456	2,806,111	2,826,011
Procurement of Ammunition, Air Force	1,973,389	1,741,199	1,811,199
Other Procurement, Air Force	21,818,134	18,275,655	19,552,800
Total Department of the Air Force	45,740,207	41,450,307	44,664,872

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Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation -----	FY 2017 PB Request with CR Adj OCO -----	FY 2017 Total PB Requests* with CR Adj OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj OCO -----
Aircraft Procurement, Air Force	128,900	202,000		202,000
Missile Procurement, Air Force	289,142	289,142	-83,900	205,242
Space Procurement, Air Force				
Procurement of Ammunition, Air Force	228,874	228,874	-201,563	27,311
Other Procurement, Air Force	3,477,001	3,826,798	-137,884	3,688,914
Total Department of the Air Force	4,123,917	4,546,814	-423,347	4,123,467



## UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation -----	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA -----	FY 2017 Total PB Requests* with CR Adj Base + OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj Base + OCO -----
Aircraft Procurement, Air Force	15,851,562	17,772,182		17,772,182
Missile Procurement, Air Force	3,277,722	3,193,822	-83,900	3,109,922
Space Procurement, Air Force	2,806,111	2,826,011		2,826,011
Procurement of Ammunition, Air Force	2,171,636	2,040,073	-201,563	1,838,510
Other Procurement, Air Force	21,890,540	23,379,598	-137,884	23,241,714
Total Department of the Air Force	45,997,571	49,211,686	-423,347	48,788,339

## UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation -----	FY 2018 Base -----	FY 2018 OCO -----	FY 2018 Total -----
Aircraft Procurement, Air Force	15,430,849	740,778	16,171,627
Missile Procurement, Air Force	2,296,182	395,400	2,691,582
Space Procurement, Air Force	3,370,775	2,256	3,373,031
Procurement of Ammunition, Air Force	1,376,602	501,509	1,878,111
Other Procurement, Air Force	19,603,497	4,008,887	23,612,384
Total Department of the Air Force	42,077,905	5,648,830	47,726,735

UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation: Missile Procurement, Air Force

Budget Activity -----	FY 2016 Base + OCO -----	FY 2017 PB Request with CR Adj Base -----	FY 2017 Total PB Requests* with CR Adj Base -----
01. Ballistic Missiles	93,715	70,247	70,247
02. Other Missiles	1,819,085	1,096,031	1,096,031
03. Modification of Inservice Missiles	83,693	123,180	123,180
04. Spares and Repair Parts	48,027	81,607	81,607
05. Other Support	1,144,194	1,055,556	1,055,556
20. Undistributed		478,059	478,059
Total Missile Procurement, Air Force	3,188,714	2,904,680	2,904,680

UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation: Missile Procurement, Air Force

Budget Activity -----	FY 2017 PB Request with CR Adj OCO -----	FY 2017 Total PB Requests* with CR Adj OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj OCO -----
01. Ballistic Missiles				
02. Other Missiles	312,925	312,925	-83,900	229,025
03. Modification of Inservice Missiles	26,620	26,620		26,620
04. Spares and Repair Parts				
05. Other Support				
20. Undistributed	-50,403	-50,403		-50,403
Total Missile Procurement, Air Force	289,142	289,142	-83,900	205,242

## UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

## Appropriation: Missile Procurement, Air Force

Budget Activity -----	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA -----	FY 2017 Total PB Requests* with CR Adj Base + OCO -----	FY 2017 Less Enacted Div B P.L.114-254** OCO -----	FY 2017 Remaining Req with CR Adj Base + OCO -----
01. Ballistic Missiles	70,247	70,247		70,247
02. Other Missiles	1,492,856	1,408,956	-83,900	1,325,056
03. Modification of Inservice Missiles	149,800	149,800		149,800
04. Spares and Repair Parts	81,607	81,607		81,607
05. Other Support	1,055,556	1,055,556		1,055,556
20. Undistributed	427,656	427,656		427,656
Total Missile Procurement, Air Force	3,277,722	3,193,822	-83,900	3,109,922

## UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation: Missile Procurement, Air Force

Budget Activity -----	FY 2018 Base -----	FY 2018 OCO -----	FY 2018 Total -----
01. Ballistic Missiles	99,098		99,098
02. Other Missiles	1,217,595	385,400	1,602,995
03. Modification of Inservice Missiles	137,243	10,000	147,243
04. Spares and Repair Parts	101,153		101,153
05. Other Support	741,093		741,093
20. Undistributed			
Total Missile Procurement, Air Force	2,296,182	395,400	2,691,582

## UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 PB Request with CR Adj Base Quantity Cost	FY 2017 Total PB Requests* with CR Adj Base Quantity Cost	S e c
Budget Activity 01: Ballistic Missiles						
-----						
Missile Replacement Equipment - Ballistic						
1	Missile Replacement Eq-Ballistic	A	93,715	70,247	70,247	U
			-----	-----	-----	
Total Ballistic Missiles			93,715	70,247	70,247	
Budget Activity 02: Other Missiles						
-----						
Tactical						
2	Joint Air-Surface Standoff Missile	A	340 425,578	360 431,645	360 431,645	U
3	LRASM0			20 59,511	20 59,511	U
4	Sidewinder (AIM-9X)	A	506 198,247	287 127,438	287 127,438	U
5	AMRAAM	A	281 362,028	256 350,144	256 350,144	U
6	Predator Hellfire Missile	A	6256 697,718	284 33,955	284 33,955	U
7	Small Diameter Bomb	A	3494 135,117	312 92,361	312 92,361	U
Industrial Facilities						
8	Industr'l Preparedns/Pol Prevention	A	397	977	977	U
			-----	-----	-----	
Total Other Missiles			1,819,085	1,096,031	1,096,031	
Budget Activity 03: Modification of Inservice Missiles						
-----						
Class IV						
9	ICBM FUZE MOD	A		17,095	17,095	U

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 4, 2017 at 10:02:54

UNCLASSIFIED

## UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj OCO Quantity	Cost	FY 2017 Total PB Requests* with CR Adj OCO Quantity	Cost	FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity	Cost	FY 2017 Remaining Req with CR Adj OCO Quantity	Cost	S e c
Budget Activity 01: Ballistic Missiles											
Missile Replacement Equipment - Ballistic											
1	Missile Replacement Eq-Ballistic	A									U
Total Ballistic Missiles											
Budget Activity 02: Other Missiles											
Tactical											
2	Joint Air-Surface Standoff Missile	A									U
3	LRASM0										U
4	Sidewinder (AIM-9X)	A									U
5	AMRAAM	A									U
6	Predator Hellfire Missile	A	1252	145,125	1252	145,125			1252	145,125	U
7	Small Diameter Bomb	A	4195	167,800	4195	167,800	-83,900		4195	83,900	U
Industrial Facilities											
8	Industr'l Preparedns/Pol Prevention	A									U
Total Other Missiles				312,925		312,925	-83,900			229,025	
Budget Activity 03: Modification of Inservice Missiles											
Class IV											
9	ICBM FUZE MOD	A									U

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UNCLASSIFIED

Page F-12A

Volume 1 - xiv



## UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA Quantity Cost	FY 2017 Total PB Requests* with CR Adj Base + OCO Quantity Cost	FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity Cost	FY 2017 Remaining Req with CR Adj Base + OCO Quantity Cost	S e c -
Budget Activity 01: Ballistic Missiles							
-----							
Missile Replacement Equipment - Ballistic							
1	Missile Replacement Eq-Ballistic	A	70,247	70,247		70,247	U
Total Ballistic Missiles			70,247	70,247		70,247	
Budget Activity 02: Other Missiles							
-----							
Tactical							
2	Joint Air-Surface Standoff Missile	A	360 431,645	360 431,645		360 431,645	U
3	LRASM0		20 59,511	20 59,511		20 59,511	U
4	Sidewinder (AIM-9X)	A	287 127,438	287 127,438		287 127,438	U
5	AMRAAM	A	256 350,144	256 350,144		256 350,144	U
6	Predator Hellfire Missile	A	1536 179,080	1536 179,080		1536 179,080	U
7	Small Diameter Bomb	A	4507 344,061	4507 260,161	-83,900	4507 176,261	U
Industrial Facilities							
8	Industr'l Preparedns/Pol Prevention	A	977	977		977	U
Total Other Missiles			1,492,856	1,408,956	-83,900	1,325,056	
Budget Activity 03: Modification of Inservice Missiles							
-----							
Class IV							
9	ICBM FUZE MOD	A	17,095	17,095		17,095	U

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 4, 2017 at 10:02:54

UNCLASSIFIED

Page F-12B

Volume 1 - xv

## UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 Base Quantity	Cost	FY 2018 OCO Quantity	Cost	FY 2018 Total Quantity	Cost	S e c
Budget Activity 01: Ballistic Missiles									
-----									
Missile Replacement Equipment - Ballistic									
1	Missile Replacement Eq-Ballistic	A	99,098				99,098		U
			-----		-----		-----		
Total Ballistic Missiles				99,098			99,098		
Budget Activity 02: Other Missiles									
-----									
Tactical									
2	Joint Air-Surface Standoff Missile	A	360	441,367			360	441,367	U
3	LRASM0		15	44,728			15	44,728	U
4	Sidewinder (AIM-9X)	A	310	125,350			310	125,350	U
5	AMRAAM	A	205	304,327			205	304,327	U
6	Predator Hellfire Missile	A	399	34,867	3230	294,480	3629	329,347	U
7	Small Diameter Bomb	A	5039	266,030	2273	90,920	7312	356,950	U
Industrial Facilities									
8	Industr'l Preparedns/Pol Prevention	A		926				926	U
			-----		-----		-----		
Total Other Missiles				1,217,595		385,400		1,602,995	
Budget Activity 03: Modification of Inservice Missiles									
-----									
Class IV									
9	ICBM FUZE MOD	A		6,334				6,334	U

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 4, 2017 at 10:02:54

UNCLASSIFIED

Page F-12C

Volume 1 - xvi

## UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 PB Request with CR Adj Base Quantity Cost	FY 2017 Total PB Requests* with CR Adj Base Quantity Cost	S e c
----	-----	-----	-----	-----	-----	-----
10	MM III Modifications	A	43,122	68,692	68,692	U
11	AGM-65D Maverick	A	15,359	282	282	U
12	AGM-88A Harm	A	197			U
13	Air Launch Cruise Missile (ALCM)	A	25,015	21,762	21,762	U
14	Small Diameter Bomb	A		15,349	15,349	U
			-----	-----	-----	
	Total Modification of Inservice Missiles		83,693	123,180	123,180	
Budget Activity 04: Spares and Repair Parts						
-----						
Missile Spares and Repair Parts						
15	Initial Spares/Repair Parts	A	48,027	81,607	81,607	U
			-----	-----	-----	
	Total Spares and Repair Parts		48,027	81,607	81,607	
Budget Activity 05: Other Support						
-----						
Space Programs						
16	Cancelled Account	A	11			U
Special Programs						
20	Special Update Programs	A	291,562	46,125	46,125	U
999	Classified Programs		852,621	1,009,431	1,009,431	U
			-----	-----	-----	
	Total Other Support		1,144,194	1,055,556	1,055,556	

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 4, 2017 at 10:02:54

UNCLASSIFIED

Page F-13

Volume 1 - xvii

## UNCLASSIFIED

Department of the Air Force  
FY 2018 President's Budget Request  
Exhibit P-1 FY 2018 President's Budget Request  
Total Obligational Authority  
(Dollars in Thousands)

04 May 2017

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj OCO Quantity	Cost	FY 2017 Total PB Requests* with CR Adj OCO Quantity	Cost	FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity	Cost	FY 2017 Remaining Req with CR Adj OCO Quantity	Cost	S e c
10	MM III Modifications	A									U
11	AGM-65D Maverick	A		26,620		26,620			26,620		U
12	AGM-88A Harm	A									U
13	Air Launch Cruise Missile (ALCM)	A									U
14	Small Diameter Bomb	A									U
	Total Modification of Inservice Missiles			26,620		26,620			26,620		
Budget Activity 04: Spares and Repair Parts											
-----											
Missile Spares and Repair Parts											
15	Initial Spares/Repair Parts	A									U
	Total Spares and Repair Parts										
Budget Activity 05: Other Support											
-----											
Space Programs											
16	Cancelled Account	A									U
Special Programs											
20	Special Update Programs	A									U
999	Classified Programs										U
	Total Other Support										

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Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA Quantity Cost	FY 2017 Total PB Requests* with CR Adj Base + OCO Quantity Cost	FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity Cost	FY 2017 Remaining Req with CR Adj Base + OCO Quantity Cost	S e c
10	MM III Modifications	A	68,692	68,692		68,692	U
11	AGM-65D Maverick	A	26,902	26,902		26,902	U
12	AGM-88A Harm	A					U
13	Air Launch Cruise Missile (ALCM)	A	21,762	21,762		21,762	U
14	Small Diameter Bomb	A	15,349	15,349		15,349	U
Total Modification of Inservice Missiles			149,800	149,800		149,800	
Budget Activity 04: Spares and Repair Parts							
-----							
Missile Spares and Repair Parts							
15	Initial Spares/Repair Parts	A	81,607	81,607		81,607	U
Total Spares and Repair Parts			81,607	81,607		81,607	
Budget Activity 05: Other Support							
-----							
Space Programs							
16	Cancelled Account	A					U
Special Programs							
20	Special Update Programs	A	46,125	46,125		46,125	U
999 Classified Programs			1,009,431	1,009,431		1,009,431	U
Total Other Support			1,055,556	1,055,556		1,055,556	

P-1C1F: FY 2018 President's Budget Request (Published Version), as of May 4, 2017 at 10:02:54

UNCLASSIFIED

Page F-13B

Volume 1 - xix

## UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2018 Base Quantity	Cost	FY 2018 OCO Quantity	Cost	FY 2018 Total Quantity	Cost	S e c
10	MM III Modifications	A		80,109			80,109		U
11	AGM-65D Maverick	A		289		10,000	10,289		U
12	AGM-88A Harm	A							U
13	Air Launch Cruise Missile (ALCM)	A		36,425			36,425		U
14	Small Diameter Bomb	A		14,086			14,086		U
Total Modification of Inservice Missiles				137,243		10,000	147,243		
Budget Activity 04: Spares and Repair Parts									
-----									
Missile Spares and Repair Parts									
15	Initial Spares/Repair Parts	A		101,153			101,153		U
Total Spares and Repair Parts				101,153			101,153		
Budget Activity 05: Other Support									
-----									
Space Programs									
16	Cancelled Account	A							U
Special Programs									
20	Special Update Programs	A		32,917			32,917		U
999 Classified Programs				708,176			708,176		U
Total Other Support				741,093			741,093		

## UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2016 Base + OCO Quantity Cost	FY 2017 PB Request with CR Adj Base Cost	FY 2017 Total PB Requests* with CR Adj Base Cost	S e c -
Budget Activity 20: Undistributed						
-----						
Undistributed						
21	Adj to Match Continuing Resolution	A	-----	478,059	478,059	U
Total Undistributed			-----	478,059	478,059	
Total Missile Procurement, Air Force			3,188,714	2,904,680	2,904,680	

UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
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Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 PB Request with CR Adj OCO Quantity	Cost	FY 2017 Total PB Requests* with CR Adj OCO Quantity	Cost	FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity	Cost	FY 2017 Remaining Req with CR Adj OCO Quantity	Cost	S e c -
Budget Activity 20: Undistributed											
Undistributed											
21	Adj to Match Continuing Resolution	A	-50,403		-50,403				-50,403		U
Total Undistributed			-50,403		-50,403				-50,403		
Total Missile Procurement, Air Force			289,142		289,142		-83,900		205,242		

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## UNCLASSIFIED

Department of the Air Force  
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 Exhibit P-1 FY 2018 President's Budget Request  
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 (Dollars in Thousands)

04 May 2017

Appropriation: 3020F Missile Procurement, Air Force

Line No	Item Nomenclature	Ident Code	FY 2017 Total PB Requests** with CR Adj Base+OCO+SAA Quantity Cost	FY 2017 Total PB Requests* with CR Adj Base + OCO Quantity Cost	FY 2017 Less Enacted Div B P.L.114-254** OCO Quantity Cost	FY 2017 Remaining Req with CR Adj Base + OCO Quantity Cost	S e c -
Budget Activity 20: Undistributed							
-----							
Undistributed							
21	Adj to Match Continuing Resolution	A	427,656	427,656		427,656	U
			-----	-----	-----	-----	
Total Undistributed			427,656	427,656		427,656	
			-----	-----	-----	-----	
Total Missile Procurement, Air Force			3,277,722	3,193,822	-83,900	3,109,922	

## UNCLASSIFIED

Department of the Air Force  
 FY 2018 President's Budget Request  
 Exhibit P-1 FY 2018 President's Budget Request  
 Total Obligational Authority  
 (Dollars in Thousands)

04 May 2017

Appropriation: 3020F Missile Procurement, Air Force

Line		Ident	FY 2018		FY 2018		FY 2018	S
No	Item Nomenclature	Code	Base	Cost	OCO	Cost	Total	e
----	-----	-----	Quantity	----	Quantity	----	Quantity	Cost
----	-----	-----	-----	----	-----	----	-----	-----
Budget Activity 20: Undistributed								
-----								
Undistributed								
21	Adj to Match Continuing Resolution	A						U
			-----		-----		-----	
Total Undistributed								
			-----		-----		-----	
Total Missile Procurement, Air Force			2,296,182		395,400		2,691,582	

UNCLASSIFIED

Air Force • Budget Estimates FY 2018 • Procurement

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

**Appropriation 3020F: Missile Procurement, Air Force**

Line #	BA	BSA	Line Item Number	Line Item Title	Page
1	01	03	00099L	Missile Replacement Eq-Ballistic.....	Volume 1 - 1

**Appropriation 3020F: Missile Procurement, Air Force**

Line #	BA	BSA	Line Item Number	Line Item Title	Page
2	02	02	JASSM0	Joint Air-Surface Standoff Missile.....	Volume 1 - 13
3	02	02	LRASM0	LRASM0.....	Volume 1 - 25
4	02	02	M09HAI	Sidewinder (AIM-9X).....	Volume 1 - 33
5	02	02	MAMRA0	AMRAAM.....	Volume 1 - 47
6	02	02	PRDTA2	Predator Hellfire Missile.....	Volume 1 - 57
7	02	02	SDB000	Small Diameter Bomb.....	Volume 1 - 67
8	02	05	42	Industr'l Preparedns/Pol Prevention.....	Volume 1 - 77

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Air Force • Budget Estimates FY 2018 • Procurement

***Appropriation 3020F: Missile Procurement, Air Force***

Line #	BA	BSA	Line Item Number	Line Item Title	Page
9	03	01	M30FLH	ICBM FUZE MOD.....	Volume 1 - 79
10	03	01	M30MLG	MM III Modifications.....	Volume 1 - 81
11	03	01	M65DAG	AGM-65D Maverick.....	Volume 1 - 93
12	03	01	M88AAG	AGM-88A Harm.....	Volume 1 - 95
13	03	01	MALCBG	Air Launch Cruise Missile (ALCM).....	Volume 1 - 97
14	03	01	SDB000	Small Diameter Bomb.....	Volume 1 - 107

***Appropriation 3020F: Missile Procurement, Air Force***

Line #	BA	BSA	Line Item Number	Line Item Title	Page
15	04	10	999	Replen Spares/Repair Parts.....	Volume 1 - 109

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Air Force • Budget Estimates FY 2018 • Procurement

Appropriation 3020F: Missile Procurement, Air Force

Line #	BA	BSA	Line Item Number	Line Item Title	Page
20	05	04	MSPPRG	Special Update Programs.....	Volume 1 - 113

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Air Force • Budget Estimates FY 2018 • Procurement

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

<b>Line Item Title</b>	<b>Line Item Number</b>	<b>Line #</b>	<b>BA</b>	<b>BSA</b>	<b>Page</b>
AGM-65D Maverick	M65DAG	11	03	01.....	Volume 1 - 93
AGM-88A Harm	M88AAG	12	03	01.....	Volume 1 - 95
AMRAAM	MAMRA0	5	02	02.....	Volume 1 - 47
Air Launch Cruise Missile (ALCM)	MALCBG	13	03	01.....	Volume 1 - 97
ICBM FUZE MOD	M30FLH	9	03	01.....	Volume 1 - 79
Industr'l Preparedns/Pol Prevention	42	8	02	05.....	Volume 1 - 77
Joint Air-Surface Standoff Missile	JASSM0	2	02	02.....	Volume 1 - 13
LRASM0	LRASM0	3	02	02.....	Volume 1 - 25
MM III Modifications	M30MLG	10	03	01.....	Volume 1 - 81
Missile Replacement Eq-Ballistic	00099L	1	01	03.....	Volume 1 - 1
Predator Hellfire Missile	PRDTA2	6	02	02.....	Volume 1 - 57
Replen Spares/Repair Parts	999	15	04	10.....	Volume 1 - 109
Sidewinder (AIM-9X)	M09HAI	4	02	02.....	Volume 1 - 33
Small Diameter Bomb	SDB000	7	02	02.....	Volume 1 - 67
Small Diameter Bomb	SDB000	14	03	01.....	Volume 1 - 107
Special Update Programs	MSPPRG	20	05	04.....	Volume 1 - 113

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Air Force • Budget Estimates FY 2018 • Procurement  
Exhibit P-1, Procurement Program  
(Listing by Appropriation, then Line Number)

**Appropriation 3020F: Missile Procurement, Air Force**  
**BA 01: Ballistic Missiles / BSA 3: Missile Replacement Equipment - Ballistic**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
1	A	00099L	Missile Replacement Eq-Ballistic	-	93.715	-	70.247	-	99.098	-	0.000	-	99.098
<b>Total: Ballistic Missiles / Missile Replacement Equipment - Ballistic</b>				-	93.715	-	70.247	-	99.098	-	0.000	-	99.098

**Appropriation 3020F: Missile Procurement, Air Force**  
**BA 02: Other Missiles / BSA 2: Tactical**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
2	A	JASSM0	Joint Air-Surface Standoff Missile	340	425.578	360	431.645	360	441.367	-	0.000	360	441.367
3	A	LRASM0	LRASM0	-	0.000	20	59.511	15	44.728	-	0.000	15	44.728
4	A	M09HAI	Sidewinder (AIM-9X)	506	198.247	287	127.438	310	125.350	-	0.000	310	125.350
5	A	MAMRA0	AMRAAM	281	362.028	256	350.144	205	304.327	-	0.000	205	304.327
6	A	PRDTA2	Predator Hellfire Missile	6,256	697.718	1,536	179.080	399	34.867	3,230	294.480	3,629	329.347

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Air Force • Budget Estimates FY 2018 • Procurement  
Exhibit P-1, Procurement Program  
(Listing by Appropriation, then Line Number)

**Appropriation 3020F: Missile Procurement, Air Force**  
**BA 02: Other Missiles / BSA 2: Tactical**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
7	A	SDB000	Small Diameter Bomb	3,494	135.117	4,507	260.161	5,039	266.030	2,273	90.920	7,312	356.950
<b>Total: Other Missiles / Tactical</b>				-	1,818.688	-	1,407.979	-	1,216.669	-	385.400	-	1,602.069

**Appropriation 3020F: Missile Procurement, Air Force**  
**BA 02: Other Missiles / BSA 5: Industrial Facilities**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
8	A	42	Industr'l Preparedns/Pol Prevention	-	0.397	-	0.977	-	0.926	-	0.000	-	0.926
<b>Total: Other Missiles / Industrial Facilities</b>				-	0.397	-	0.977	-	0.926	-	0.000	-	0.926

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Air Force • Budget Estimates FY 2018 • Procurement  
Exhibit P-1, Procurement Program  
(Listing by Appropriation, then Line Number)

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

Line#	Cost Type	Line Item #	Line Item Title	Cost (\$ in Millions)									
				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
9	A	M30FLH	ICBM FUZE MOD	-	0.000	-	17.095	-	6.334	-	0.000	-	6.334
10	A	M30MLG	MM III Modifications	-	43.122	-	68.692	-	80.109	-	0.000	-	80.109
11	A	M65DAG	AGM-65D Maverick	-	15.359	-	26.902	-	0.289	-	10.000	-	10.289
12	A	M88AAG	AGM-88A Harm	-	0.197	-	0.000	-	0.000	-	0.000	-	0.000
13	A	MALCBG	Air Launch Cruise Missile (ALCM)	-	25.015	-	21.762	-	36.425	-	0.000	-	36.425
14	A	SDB000	Small Diameter Bomb	-	0.000	-	15.349	-	14.086	-	0.000	-	14.086
<b>Total: Modification of Inservice Missiles / Class IV</b>				-	83.693	-	149.800	-	137.243	-	10.000	-	147.243

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Air Force • Budget Estimates FY 2018 • Procurement  
Exhibit P-1, Procurement Program  
(Listing by Appropriation, then Line Number)

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

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
15	A	999	Replen Spares/Repair Parts	-	48.027	-	81.607	-	101.153	-	0.000	-	101.153
<b>Total: Spares and Repair Parts / Missile Spares and Repair Parts</b>				-	48.027	-	81.607	-	101.153	-	0.000	-	101.153

**Appropriation 3020F: Missile Procurement, Air Force**  
**BA 05: Other Support / BSA 4: Special Programs**

				Cost (\$ in Millions)									
Line#	Cost Type	Line Item #	Line Item Title	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	
				Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount	Quantity	Amount
20	A	MSPPRG	Special Update Programs	-	291.562	-	46.125	-	32.917	-	0.000	-	32.917
<b>Total: Other Support / Special Programs</b>				-	291.562	-	46.125	-	32.917	-	0.000	-	32.917

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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
5910	MINUTEMAN MEECN MODIFICATION		No
5928	T-9 Launch Facility Trainer Conversion (T-9)		No
5934	LGM-30G Flight Test Telemetry and Termination System (FT3)		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
5916	ICBM Cryptography Upgrade Increment II		No
5921	MM LCC Block Upgrades		No
5932	LGM-30G Remote Visual Assessment Phase II (RVA II)		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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Air Force • Budget Estimates FY 2018 • Procurement  
Exhibit P-1M, Procurement Programs - Modification Summary  
(Listing by Model)

<b>Model:</b>	<b>AGM-86B</b>	
<b>Modification P-40a Aggregated Items Title:</b>	<b>Air Launch Cruise Missile (ALCM)</b>	
<b>Item Number</b>	<b>Item Title</b>	<b>Applies to Multiple Models</b>
860004	AGM-86B Service Life Extension Program 3	No
<b>P-3a Individual Modifications</b>		
<b>Modification Number</b>	<b>Modification Title</b>	<b>Applies to Multiple Models</b>
860002	AGM-86B Service Life Extension Program 2	No
860009	AGM-86B CALCM/ALCM Test Instrumentation Kit	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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
<b>Exhibit P-40a</b>										
LGM-30G Maintenance Trainer Modification	8.085	-	-	-	-	-	-	-	-	-
MINUTEMAN MEECN MODIFICATION	84.827	13.100	9.621	9.519	-	9.519	-	-	-	-
T-9 Launch Facility Trainer Conversion (T-9)	-	9.716	0.791	6.024	-	6.024	-	-	-	-
LGM-30G Flight Test Telemetry and Termination System (FT3)	-	5.069	21.867	-	-	-	-	-	-	-
LGM-30G Launch Control Center Break-In-Kit (LCCB)	-	-	1.024	0.872	-	0.872	-	-	-	-
ICBM Fuze Modernization	4.700	13.700	-	-	-	-	-	-	-	-
Low Cost Modifications	-	1.537	3.750	2.000	-	2.000	-	-	-	-
AGM-86B Low Cost Mods	1.414	0.130	0.100	0.100	-	0.100	-	-	-	-
AGM-86B Service Life Extension Program 1	8.237	0.015	0.015	0.007	-	0.007	-	-	-	-
AGM-86B Service Life Extension Program 3	-	4.243	5.528	5.267	-	5.267	-	-	-	-
<b>Exhibit P-3a</b>										
ICBM Cryptography Upgrade Increment II	0.000	0.000	31.639	29.559	0.000	29.559	-	-	-	-
MM LCC Block Upgrades	0.000	0.000	0.000	16.004	0.000	16.004	-	-	-	-
LGM-30G Remote Visual Assessment Phase II (RVA II)	-	0.000	0.000	16.131	0.000	16.131	-	-	-	-
AGM-86B Service Life Extension Program 2	20.119	10.072	11.080	18.522	0.000	18.522	-	-	-	-
AGM-86B CALCM/ALCM Test Instrumentation Kit	89.013	10.555	5.039	12.529	0.000	12.529	-	-	-	-
<b>Totals (Total Obligation Authority)</b>										
<b>Total Obligation Authority</b>	<b>216.395</b>	<b>68.137</b>	<b>90.454</b>	<b>116.534</b>	<b>0.000</b>	<b>116.534</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>

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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
EWAIISP	- 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
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
OPF	- Operational Flight Program
OT&E	- Operational Test and Evaluation
OWRM	- Other War Reserve Material
PAGEL	- Priced Aerospace Ground Equipment List
PB	- President's Budget
PGSE	- Peculiar Ground Support Equipment
PMA	- Program Management Administration
PMC	- Procurement Method Code
PNO	- Acquisition Program Number (MDAP Codes)
PR	- Purchase Request
PRCP	- Program Resource Collection Process
PTT	- Part Task Trainer
PY	- Prior Year

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

### ***BASE / ORGANIZATIONAL ACRONYMS***

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

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

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### ***CONTRACT METHOD / TYPE ACRONYMS***

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

### ***CONTRACTED BY ACRONYMS***

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

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

### ***IDENTIFICATION CODES***

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 3: Missile Replacement Equipment - Ballistic							<b>P-1 Line Item Number / Title:</b> 00099L / Missile Replacement Eq-Ballistic					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0101213F				
<b>Line Item MDAP/MAIS Code:</b> N/A												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	93.715	70.247	99.098	0.000	99.098	50.529	22.049	12.757	4.742	-	353.137
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	93.715	70.247	99.098	0.000	99.098	50.529	22.049	12.757	4.742	-	353.137
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>93.715</b>	<b>70.247</b>	<b>99.098</b>	<b>0.000</b>	<b>99.098</b>	<b>50.529</b>	<b>22.049</b>	<b>12.757</b>	<b>4.742</b>	-	<b>353.137</b>
<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> )	-	-	-	0.224	-	0.224	-	-	-	-	-	0.224
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This program funds replacement of organizational and intermediate level support equipment for all out-of-production 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. Programs will include analysis of Diminishing Manufacturing Sources and Material Shortages (DMSMS) risks and procurement activities related to DMSMS.

Funding for this exhibit is contained in PE 0101213F.

Ballistic Missile Items Less Than \$5 Million: Support Equipment Less Than \$5M procures low cost new, modified or replacement support equipment.

MM Power Panels (PPM): Minuteman Power Panels replaces obsolete and unsupportable power distribution panels within Launch Control Centers and Launch Facilities.

Payload Transporter Replacement (PTR): 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. Required to sustain Minuteman III operations through fielding of Ground Based Strategic Deterrent (GBSD).

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

Reentry Field Support Equipment (RFSE): RFSE replaces the current reentry system test set. RFSE will increase the Mean Time Between Failure, eliminate unneeded Mk12 functions, and add new Mk21 functions. It will provide capability to meet Department of Energy mandated Limited Life Component warhead swaps and to test electrical continuity during buildup of Minuteman III reentry systems.

Squadron Data Simulator (SDS): The SDS simulates the command and control message traffic between a MM squadron of Launch Control Centers (LCCs) and the Launch Facilities (LFs). The system is used extensively to support Strategic Missile Integration Complex (SMIC) weapon system modification testing, field anomaly investigations, and the Hardened Surveillance Electromagnetic Pulse Program (HSEP). It provides extensive faulting and troubleshooting features and verifies operational status of LCCs and LFs following site modifications or extensive site maintenance.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 3: Missile Replacement Equipment - Ballistic		<b>P-1 Line Item Number / Title:</b> 00099L / Missile Replacement Eq-Ballistic
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0101213F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>Transporter Erector Replacement Program (TERP): 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 2030.</p>		



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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force								<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 3: Missile Replacement Equipment - Ballistic						<b>P-1 Line Item Number / Title:</b> 00099L / Missile Replacement Eq-Ballistic				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0101213F				
<b>Line Item MDAP/MAIS Code:</b> N/A										
Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Ballistic Missile Items Less Than \$5 Million				- / -	- / 27.997	- / 2.108	- / 8.685	- / 0.000	- / 8.685
P-40a	MM Power Panels (PPM)				- / -	- / 11.195	- / 12.123	- / 9.197	- / 0.000	- / 9.197
P-40a	Payload Transporter Replacement (PTR)				- / -	- / 0.005	- / 24.304	- / 20.216	- / 0.000	- / 20.216
P-40a	Perf Assess Data Sys Comm Equip Interface Unit (PADS CEIU II)				- / -	- / 0.000	- / 0.000	- / 1.024	- / 0.000	- / 1.024
P-40a	Reentry Field Support Equipment (RFSE)				- / -	- / 44.518	- / 0.663	- / 0.310	- / 0.000	- / 0.310
P-40a	Squadron Data Simulator (SDS)				- / -	- / 0.000	- / 0.000	- / 5.205	- / 0.000	- / 5.205
P-40a	Transporter Erector Replacement Program (TERP)				- / -	- / 10.000	- / 31.049	- / 54.461	- / 0.000	- / 54.461
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 93.715</b>	<b>- / 70.247</b>	<b>- / 99.098</b>	<b>- / 0.000</b>	<b>- / 99.098</b>
*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.										
Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.										
<p><b>Justification:</b>            This program, Missile Replacement Eq-Ballistic P-40A Item Performance Assessment Data System Comm Equipment Interface Unit (PADS CEIU II), is a new start.            This program, Missile Replacement Eq-Ballistic P-40A Item Squadron Data Simulator (SDS), is a new start.</p> <p>FY18 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 FY18 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> <p>Ballistic Missile Items Less Than \$5 Million: Procures low cost support equipment required to sustain Minuteman III operations through fielding of the Ground Based Strategic Deterrent (GBSD).</p> <p>MM Power Panels (PPM): Procures power panel replacements required to sustain Minuteman III operations through fielding of the Ground Based Strategic Deterrent (GBSD).</p> <p>Payload Transporter Replacement (PTR): Procures replacement payload transporters required to sustain Minuteman III operations through fielding of the Ground Based Strategic Deterrent (GBSD).</p> <p>Perf Assess Data Sys Comm Equip Interface Unit (PADS CEIU II): PADS Communications Equipment Interface Unit (CEIU) is used to transmit MM III Inertial Measurement Unit (IMU) Performance Data (IPD) from the Launch Control Center (LCC) to the PADS at the support base via telephone lines. CEIU is unclassified equipment, but interfaces with both classified and non-classified systems. This program will update the current CEIU. No modem will be needed for the updated version.</p> <p>Reentry Field Support Equipment (RFSE): The RFSE replaces unsupportable and unreliable support equipment and is required to sustain Minuteman III operations through fielding of Ground Based Strategic Deterrent (GBSD).</p>										

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 01: Ballistic Missiles / BSA 3: Missile Replacement Equipment - Ballistic		<b>P-1 Line Item Number / Title:</b> 00099L / Missile Replacement Eq-Ballistic
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0101213F
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>Squadron Data Simulator (SDS): SMIC SDS Replacement Program replaces failing SDS assets (a total of 12 systems). It is critical to operational certification of field LCCs and LFs, weapon system testing for modification programs, anomaly investigations, and HSEP.</p> <p>Transporter Erector Replacement Program (TERP): Transporter Erector Replacement Program (TERP) replaces current transporter erectors exhibiting structural integrity issues and addresses supportability issues. TERP is required to sustain Minuteman III operations through fielding of Ground Based Strategic Deterrent (GBSD).</p>		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force															Date: May 2017					
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Various																				
Various	A		-	-	-	-	-	27.997	-	-	2.108	-	-	8.685	-	-	0.000	-	-	8.685
Subtotal: Various			-	-	-	-	-	27.997	-	-	2.108	-	-	8.685	-	-	0.000	-	-	8.685
Total			-	-	-	-	-	27.997	-	-	2.108	-	-	8.685	-	-	0.000	-	-	8.685
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: FY 2018 Air Force															Date: May 2017					
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
LGM-30G																				
LGM-30G Minuteman III Power Panels (MMPP)	A		-	-	-	-	-	11.195	-	-	12.123	-	-	9.197	-	-	0.000	-	-	9.197
Subtotal: LGM-30G			-	-	-	-	-	11.195	-	-	12.123	-	-	9.197	-	-	0.000	-	-	9.197
Total			-	-	-	-	-	11.195	-	-	12.123	-	-	9.197	-	-	0.000	-	-	9.197
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.																				
Remarks: The LGM-30G Power Panels Modification (PPM) 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: FY 2018 Air Force															Date: May 2017					
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
LGM-30G																				
LGM-30G Payload Transporter Replacement (PTR)	A		-	-	-	-	-	0.005	12.152	2	24.304	2.022	10	20.216	-	-	0.000	2.022	10	20.216
Subtotal: LGM-30G			-	-	-	-	-	0.005	-	-	24.304	-	-	20.216	-	-	0.000	-	-	20.216
Total			-	-	-	-	-	0.005	-	-	24.304	-	-	20.216	-	-	0.000	-	-	20.216

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

**Remarks:**

The LGM-30G Payload Transporter Replacement (PTR) 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.

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> FY 2018 Air Force																<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 01 / 3								<b>P-1 Line Item Number / Title:</b> 00099L / Missile Replacement Eq-Ballistic								<b>Aggregated Items Title:</b> Perf Assess Data Sys Comm Equip Interface Unit (PADS CEIU II)			

  

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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)
<b>LGM-30G</b>																				
Performance Assessment Data System Comm Equipment Interface Unit (PADS CEIU II)	A		-	-	-	-	-	0.000	-	-	0.000	0.038	27	1.024	-	-	0.000	0.038	27	1.024
<b>Subtotal: LGM-30G</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>1.024</b>	-	-	<b>0.000</b>	-	-	<b>1.024</b>
<b>Total</b>			-	-	-	-	-	<b>0.000</b>	-	-	<b>0.000</b>	-	-	<b>1.024</b>	-	-	<b>0.000</b>	-	-	<b>1.024</b>

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

**Remarks:**  
This program, PADS CEIU II, is a FY18 Procurement New Start.

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

PADS Communications Equipment Interface Unit (CEIU) is used to transmit MM III Inertial Measurement Unit (IMU) Performance Data (IPD) from the Launch Control Center (LCC) to the PADS at the support base via telephone lines. CEIU is unclassified equipment, but interfaces with both classified and non-classified systems. This program will update the current CEIU. No modem will be needed for the updated version.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force															Date: May 2017					
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
LGM-30G																				
LGM-30G Reentry Field Support Equipment (RFSE)	A		-	-	-	6.360	7	44.518	-	-	0.663	-	-	0.310	-	-	0.000	-	-	0.310
Subtotal: LGM-30G			-	-	-	-	-	44.518	-	-	0.663	-	-	0.310	-	-	0.000	-	-	0.310
Total			-	-	-	-	-	44.518	-	-	0.663	-	-	0.310	-	-	0.000	-	-	0.310

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 is producing test sets to replace the aging and obsolete Reentry System Test Set (RSTS) and the Safety Enhanced Reentry Vehicle (SERV) Field Test Set (SFTS). The RSTS was built in the late 1960s, using early 1960s technology. The RSTS was designed to have a Mean Time Between Failures (MTBF) of approximately 3000 hours but has degraded to about 24 hours at RFSE program initiation. The replacement effort will consist of procuring Reentry System Test Consoles (RSTC), Forward Section Test Sets (FSTS), and sets of support equipment consisting of a RSTC Alignment Console and two FSTS calibration boxes per set. This procurement action will be done to fulfill the requirements of AFGSC.

The test sets will be used to test and functionally check out the MK12A and MK21 Reentry Systems and the MK12A Reentry Vehicle's Forward Sections. The test sets support the Minuteman III Intercontinental Ballistic Missile (ICBM) weapon system ensuring its viability to 2030 and beyond. The RSTC will be able to check-out all possible SERV RS configurations. The MK12A Forward Section will be checked-out by the FSTS, allowing simultaneous processing efforts to take place, reducing overall processing time in the Weapon Storage Area. The MK21 Forward Sections will continue to be checked by the current SERV Arming and Fuzing Assembly Test Set (AFATS).

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<b>Exhibit P-40a, Budget Item Justification For Aggregated Items:</b> FY 2018 Air Force															<b>Date:</b> May 2017				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 01 / 3								<b>P-1 Line Item Number / Title:</b> 00099L / Missile Replacement Eq-Ballistic							<b>Aggregated Items Title:</b> Squadron Data Simulator (SDS)				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
LGM-30G																				
Squadron Data Simulator (SDS)	A		-	-	-	-	-	0.000	-	-	0.000	-	-	5.205	-	-	0.000	-	-	5.205
Subtotal: LGM-30G			-	-	-	-	-	0.000	-	-	0.000	-	-	5.205	-	-	0.000	-	-	5.205
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	5.205	-	-	0.000	-	-	5.205

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

**Remarks:**

This program, Squadron Data Simulator (SDS) is a FY18 Procurement New Start

The SDS simulates the command and control message traffic between a MM squadron of Launch Control Centers (LCCs) and the Launch Facilities (LFs). The system is used extensively to support Strategic Missile Integration Complex (SMIC) weapon system modification testing, field anomaly investigations, and the Hardened Surveillance Electromagnetic Pulse Program (HSEP). It provides extensive faulting and troubleshooting features and verifies operational status of LCCs and LFs following site modifications or extensive site maintenance.

SMIC SDS Replacement Program replaces failing SDS assets (a total of 12 systems). It is critical to operational certification of field LCCs and LFs, weapon system testing for modification programs, anomaly investigations, and HSEP.



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Exhibit P-40a, Budget Item Justification For Aggregated Items: FY 2018 Air Force															Date: May 2017						
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total			
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	
LGM-30G																					
LGM-30G Transporter Erector Replacement Program (TERP)		A		-	-	-	3.333	3	10.000	5.175	6	31.049	5.446	10	54.461	-	-	0.000	5.446	10	54.461
Subtotal: LGM-30G			-	-	-	-	-	10.000	-	-	31.049	-	-	54.461	-	-	0.000	-	-	54.461	
Total			-	-	-	-	-	10.000	-	-	31.049	-	-	54.461	-	-	0.000	-	-	54.461	

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. Option 1 will be exercised in FY17 using FY16 and FY17 funding after successful completion of first article qualification. Options 2, 3, and 4 will be awarded in FY18 using FY17 and FY18 funding for a total procurement of 19 units over FY17-18.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical							<b>P-1 Line Item Number / Title:</b> JASSM0 / Joint Air-Surface Standoff Missile					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> 555												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	2,234	340	360	360	-	360	334	360	380	360	172	4,900
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	2,243.186	425.578	431.645	441.367	0.000	441.367	416.791	477.688	512.462	470.545	504.500	5,923.762
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	2,243.186	425.578	431.645	441.367	0.000	441.367	416.791	477.688	512.462	470.545	504.500	5,923.762
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>2,243.186</b>	<b>425.578</b>	<b>431.645</b>	<b>441.367</b>	<b>0.000</b>	<b>441.367</b>	<b>416.791</b>	<b>477.688</b>	<b>512.462</b>	<b>470.545</b>	<b>504.500</b>	<b>5,923.762</b>
<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	0.424	-	0.424	0.429	0.437	0.444	0.453	0.418	3.778
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	1.004	1.252	1.199	1.226	-	1.226	1.248	1.327	1.349	1.307	2.933	1.209

**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 40-52), B-1, B-2, and F-15E. Aircraft integration for JASSM-ER is complete on the B-1B. Objective aircraft are the B-52H, F16C/D (Block 40-52), B-2 and F-15E. 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 FY16 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. FY17 will be the 15th production lot for the JASSM program. 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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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force								<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical						<b>P-1 Line Item Number / Title:</b> JASSM0 / Joint Air-Surface Standoff Missile				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> 555										
Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	JASSM0 JASSM Baseline		A		1,934 / 1,752.281	100 / 84.196	- / -	- / -	- / 0.000	- / 0.000
P-5	Joint Air-Surface Standoff Missile	P-5a, P-21	A		300 / 490.905	240 / 341.382	360 / 431.645	360 / 441.367	- / -	360 / 441.367
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>2,234 / 2,243.186</b>	<b>340 / 425.578</b>	<b>360 / 431.645</b>	<b>360 / 441.367</b>	<b>- / 0.000</b>	<b>360 / 441.367</b>
*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:**  
FY18: Production will remain 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.

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

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Exhibit P-5, Cost Analysis: FY 2018 Air Force											Date: May 2017							
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 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total				
Procurement Quantity <i>(Units in Each)</i>				1,934		100		-		-		-		-				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				1,752.281		84.196		-		-		0.000		0.000				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				1,752.281		84.196		-		-		0.000		0.000				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				1,752.281		84.196		-		-		0.000		0.000				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		0.471		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>				0.906		0.842		-		-		-		-				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Flyaway End Item Cost																		
Recurring Cost																		
JASSM Baseline All-UP-Round	0.691	1,934	1,335.842	0.842	100	84.196	-	-	-	-	-	-	-	-	0.000	-	-	0.000
Engineering Change Orders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000
Subtotal: Recurring Cost	-	-	1,335.842	-	-	84.196	-	-	-	-	-	-	-	-	0.000	-	-	0.000
Subtotal: Flyaway - Flyaway End Item Cost	-	-	1,335.842	-	-	84.196	-	-	-	-	-	-	-	-	0.000	-	-	0.000
Support - Support End Item Cost																		
Program Management Administration (PMA)-A&AS	-	-	9.526	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000
Program Management Administration (PMA)-Gov't Cost	-	-	24.178	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000
Test Support/Reliability/Obsolescence	-	-	253.860	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000
Prime Contractor Support	-	-	99.286	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000
JPO Tech Supt	-	-	29.589	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000
Subtotal: Support - Support End Item Cost	-	-	416.439	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.000
Gross/Weapon System Cost	0.906	1,934	1,752.281	0.842	100	84.196	-	-	-	-	-	-	-	-	0.000	-	-	0.000

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Exhibit P-5, Cost Analysis: FY 2018 Air Force												Date: May 2017						
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 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total				
Procurement Quantity <i>(Units in Each)</i>				300		240		360		360		-		360				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				490.905		341.382		431.645		441.367		-		441.367				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				490.905		341.382		431.645		441.367		-		441.367				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				490.905		341.382		431.645		441.367		-		441.367				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		0.335		0.367		0.424		-		0.424				
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>				1.636		1.422		1.199		1.226		-		1.226				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 <sup>(†)</sup>	1.440	300	431.944	1.173	240	281.482	1.146	360	412.606	1.146	360	412.606	-	-	-	1.146	360	412.606
Engineering Change Orders	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	431.944	-	-	281.482	-	-	412.606	-	-	412.606	-	-	-	-	-	412.606
Subtotal: Flyaway - Flyaway End Item Cost	-	-	431.944	-	-	281.482	-	-	412.606	-	-	412.606	-	-	-	-	-	412.606
Support - Support End Item Cost																		
Program Management Administration (PMA)-A&AS	-	-	-	-	-	3.352	-	-	3.625	-	-	4.303	-	-	-	-	-	4.303
Program Management Administration (PMA)-Gov't Cost	-	-	-	-	-	1.072	-	-	1.339	-	-	1.455	-	-	-	-	-	1.455
Test Support/Reliability/Obsolescence	-	-	47.291	-	-	45.476	-	-	14.059	-	-	13.003	-	-	-	-	-	13.003
Prime Contractor Support	-	-	11.670	-	-	10.000	-	-	0.016	-	-	10.000	-	-	-	-	-	10.000
Subtotal: Support - Support End Item Cost	-	-	58.961	-	-	59.900	-	-	19.039	-	-	28.761	-	-	-	-	-	28.761
Gross/Weapon System Cost	1.636	300	490.905	1.422	240	341.382	1.199	360	431.645	1.226	360	441.367	-	-	-	1.226	360	441.367

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Exhibit P-5, Cost Analysis: FY 2018 Air Force		Date: May 2017
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:
<div>(†) indicates the presence of a P-5a</div>		

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<b>Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force</b>								<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 02 / 2				<b>P-1 Line Item Number / Title:</b> JASSM0 / Joint Air-Surface Standoff Missile				<b>Item Number / Title [DODIC]:</b> - / Joint Air-Surface Standoff Missile			

<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
JASSM Extended Range (ER) All-Up-Round <sup>(†)</sup>		2014	Lockheed Martin / Troy, Alabama	SS / FFP	AFLCMC/PK Eglin AFB, FL	Jun 2014	Jun 2016	60	1.497	Y		Jul 2012
JASSM Extended Range (ER) All-Up-Round <sup>(†)</sup>		2015	Lockheed Martin / Troy, Alabama	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Oct 2015	Mar 2017	140	1.248	Y		Jan 2014
JASSM Extended Range (ER) All-Up-Round <sup>(†)</sup>		2016	Lockheed Martin / Troy, Alabama	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Dec 2015	Nov 2017	240	1.173	Y		Jan 2014
JASSM Extended Range (ER) All-Up-Round <sup>(†)</sup>		2017	Lockheed Martin / Troy, Alabama	SS / FPIF	AFLCMC/PK Eglin AFB, FL	May 2017	Sep 2018	360	1.146	Y		Aug 2016
JASSM Extended Range (ER) All-Up-Round <sup>(†)</sup>		2018	Lockheed Martin / Troy, Alabama	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Jan 2018	Jul 2019	360	1.146	Y		Jul 2017

<sup>(†)</sup> indicates the presence of a P-21



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Exhibit P-21, Production Schedule: FY 2018 Air Force																				Date: May 2017																	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile										Item Number / Title [DODIC]: - / Joint Air-Surface Standoff Missile																	
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2014										Fiscal Year 2015														B A L A N C E						
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014										Calendar Year 2015																				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P							
JASSM Extended Range (ER) All-Up-Round																																					
Prior Years Deliveries: 100																																					
	1	2014	AF		60	0	60											A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60
	1	2015	AF		140	0	140																									140					
	1	2016	AF		240	0	240																									240					
	1	2017	AF		360	0	360																									360					
	1	2018	AF		360	0	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: FY 2018 Air Force																							Date: May 2017											
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile													Item Number / Title [DODIC]: - / Joint Air-Surface Standoff Missile											
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2016												Fiscal Year 2017												B A L A N C E			
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
JASSM Extended Range (ER) All-Up-Round																																		
Prior Years Deliveries: 100																																		
	1	2014	AF		60	0	60	-	-	-	-	-	-	-	-	1	-	6	-	-	28	4	1	1	-	19						0		
	1	2015	AF		140	0	140	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	20	20	14	19	19	19	20		
	1	2016	AF		240	0	240			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240			
	1	2017	AF		360	0	360																A -					-	-	-	-	-	-	360
	1	2018	AF		360	0	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: FY 2018 Air Force																			Date: May 2017																	
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: JASSM0 / Joint Air-Surface Standoff Missile														Item Number / Title [DODIC]: - / Joint Air-Surface Standoff Missile												
Cost Elements <i>(Units in Each)</i>								Fiscal Year 2018														Fiscal Year 2019														BALANCE
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT				Calendar Year 2018											Calendar Year 2019															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
JASSM Extended Range (ER) All-Up-Round																																				
Prior Years Deliveries: 100																																				
	1	2014	AF		60	60	0																											0		
	1	2015	AF		140	120	20	20																										0		
	1	2016	AF		240	0	240	-	24	24	24	24	24	24	24	24	24	24	36	36	36	36	36	36	36	36	36	36	36	36	0					
	1	2017	AF		360	0	360	-	-	-	-	-	-	-	-	-	-	36	36	36	36	36	36	36	36	36	36	36	36	0						
	1	2018	AF		360	0	360				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	36	36	252				
								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: FY 2018 Air Force																			Date: May 2017													
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 2020												Fiscal Year 2021												BALANCE	
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020								Calendar Year 2021																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
JASSM Extended Range (ER) All-Up-Round																																
Prior Years Deliveries: 100																																
	1	2014	AF		60	60	0																								0	
	1	2015	AF		140	140	0																								0	
	1	2016	AF		240	240	0																								0	
	1	2017	AF		360	360	0																								0	
	1	2018	AF		360	108	252	36	36	36	36	36	36	36	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	0

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<b>Exhibit P-21, Production Schedule:</b> FY 2018 Air Force								<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 02 / 2				<b>P-1 Line Item Number / Title:</b> JASSM0 / Joint Air-Surface Standoff Missile				<b>Item Number / Title [DODIC]:</b> - / Joint Air-Surface Standoff Missile			

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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	0	4	18	22	0	0	0	0

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

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical							<b>P-1 Line Item Number / Title:</b> LRASM0 / LRASM0					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B				<b>Program Elements for Code B Items:</b> 0207325F				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> 449												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	20	15	-	15	15	-	-	-	-	50
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	59.511	44.728	0.000	44.728	44.581	0.000	0.000	-	0.000	148.820
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	59.511	44.728	0.000	44.728	44.581	0.000	0.000	-	0.000	148.820
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>59.511</b>	<b>44.728</b>	<b>0.000</b>	<b>44.728</b>	<b>44.581</b>	<b>0.000</b>	<b>0.000</b>	-	<b>0.000</b>	<b>148.820</b>
<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	2.982	-	2.982	2.972	-	-	-	-	2.976

**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 was the first year of LRASM procurement and the program procures missiles over a three year period.

Funding for this exhibit is contained in PE 0207325F, LRASM  
 Additional production funding for this exhibit is also contained in Navy PE 0604786N Offensive Anti-Surface Warfare Weapon Dev

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force								<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical						<b>P-1 Line Item Number / Title:</b> LRASM0 / LRASM0				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B				<b>Program Elements for Code B Items:</b> 0207325F			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> 449										
Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	LRASM0	P-5a, P-21	B		- / -	- / 0.000	20 / 59.511	15 / 44.728	- / 0.000	15 / 44.728
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / -</b>	<b>- / 0.000</b>	<b>20 / 59.511</b>	<b>15 / 44.728</b>	<b>- / 0.000</b>	<b>15 / 44.728</b>
<small>*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.</small>										
<small>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</small>										

**Justification:**  
The funds in FY18 will procure 15 LRASM missiles.



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Exhibit P-5, Cost Analysis: FY 2018 Air Force												Date: May 2017						
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2						P-1 Line Item Number / Title: LRASM0 / LRASM0						Item Number / Title [DODIC]: - / LRASM0						
ID Code (A=Service Ready, B=Not Service Ready) : B									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total				
Procurement Quantity (Units in Each)				-		-		20		15		-		15				
Gross/Weapon System Cost (\$ in Millions)				-		0.000		59.511		44.728		0.000		44.728				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		0.000		59.511		44.728		0.000		44.728				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		0.000		59.511		44.728		0.000		44.728				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares (\$ in Millions)				-		0.000		0.000		0.000		0.000		0.000				
Gross/Weapon System Unit Cost (\$ in Millions)				-		-		2.976		2.982		-		2.982				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 <sup>(†)</sup>	-	-	-	-	-	0.000	2.886	20	57.711	2.849	15	42.728	-	-	0.000	2.849	15	42.728
Subtotal: Recurring Cost	-	-	-	-	-	0.000	-	-	57.711	-	-	42.728	-	-	0.000	-	-	42.728
Subtotal: Hardware - LRASM Cost	-	-	-	-	-	0.000	-	-	57.711	-	-	42.728	-	-	0.000	-	-	42.728
Support - LRASM0 Cost																		
Program Management Administration (PMA)-A&AS	-	-	-	-	-	-	-	-	1.000	-	-	1.100	-	-	0.000	-	-	1.100
Program Management Administration (PMA)-Gov't Cost	-	-	-	-	-	-	-	-	0.800	-	-	0.900	-	-	0.000	-	-	0.900
Subtotal: Support - LRASM0 Cost	-	-	-	-	-	-	-	-	1.800	-	-	2.000	-	-	0.000	-	-	2.000
Gross/Weapon System Cost	-	-	-	-	-	0.000	2.976	20	59.511	2.982	15	44.728	-	-	0.000	2.982	15	44.728
<sup>(†)</sup> indicates the presence of a P-5a																		

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Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force									Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2				P-1 Line Item Number / Title: LRASM0 / LRASM0				Item Number / Title [DODIC]: - / LRASM0				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
All-Up-Round <sup>(†)</sup>		2017	Lockheed Martin / Troy, AL	SS / FPIF	Eglin AFB	May 2017	Jun 2018	20	2.886	N	Oct 2015	Oct 2015
All-Up-Round <sup>(†)</sup>		2018	Lockheed Martin / Troy, AL	SS / FPIF	Eglin AFB	Jan 2018	Jun 2019	15	2.849	N	Jul 2017	Jan 2017

<sup>(†)</sup> indicates the presence of a P-21

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Exhibit P-21, Production Schedule: FY 2018 Air Force																							Date: May 2017													
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2								P-1 Line Item Number / Title: LRASM0 / LRASM0															Item Number / Title [DODIC]: - / LRASM0													
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2017												Fiscal Year 2018												BALANCE					
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018																	
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP						
All-Up-Round																																				
	1	2017	AF		20	0	20								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	4	4	6			
	1	2017	NAVY (‡)		10	0	10								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10			
	1	2017	Total		30	0	30								-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	4	4	16			
	1	2018	AF		15	0	15													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
	1	2018	NAVY (‡)		25	0	25													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
	1	2018	Total		40	0	40													-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40
								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: FY 2018 Air Force																				Date: May 2017													
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: LRASM0 / LRASM0										Item Number / Title [DODIC]: - / LRASM0													
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2019										Fiscal Year 2020													BALANCE			
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019										Calendar Year 2020																
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP		
All-Up-Round																																	
	1	2017	AF	20	14	6	4	2	-	-	-	-																				0	
	1	2017	NAVY (‡)	10	0	10	-	-	-	2	4	4																				0	
	1	2017	Total	30	14	16	4	2	-	2	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	1	2018	AF	15	0	15	-	-	-	-	-	-	-	-	2	2	4	4	3	-	-	-	-	-	-						0		
	1	2018	NAVY (‡)	25	0	25	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	3						0			
	1	2018	Total	40	0	40	-	-	-	-	-	-	-	-	4	4	6	6	5	2	2	2	2	3	-	-	-	-	0				
							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: FY 2018 Air Force									Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2					P-1 Line Item Number / Title: LRASM0 / LRASM0				Item Number / Title [DODIC]: - / LRASM0			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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	0	4	17	21	0	0	0	0

(‡) 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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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical							<b>P-1 Line Item Number / Title:</b> M09HAI / Sidewinder (AIM-9X)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0207161F				
<b>Line Item MDAP/MAIS Code:</b> 442												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	911	506	287	310	-	310	286	291	383	239	139	3,352
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	469.133	198.247	127.438	125.350	0.000	125.350	122.340	125.299	168.454	120.827	77.545	1,534.633
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	469.133	198.247	127.438	125.350	0.000	125.350	122.340	125.299	168.454	120.827	77.545	1,534.633
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>469.133</b>	<b>198.247</b>	<b>127.438</b>	<b>125.350</b>	<b>0.000</b>	<b>125.350</b>	<b>122.340</b>	<b>125.299</b>	<b>168.454</b>	<b>120.827</b>	<b>77.545</b>	<b>1,534.633</b>
<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> )	8.021	0.604	7.684	5.708	-	5.708	4.294	4.324	1.881	1.915	1.982	36.413
Flyaway Unit Cost ( <i>\$ in Millions</i> )	0.435	0.375	0.415	0.377	-	0.377	0.400	0.406	0.417	0.470	0.496	0.416
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	0.515	0.392	0.444	0.404	-	0.404	0.428	0.431	0.440	0.506	0.558	0.458

**Description:**

The Air Intercept Missile-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 led by the Department of the Navy. In June 2011, the Milestone Decision Authority (MDA) established the AIM-9X Block II missile program which was approved for entry at Milestone C for Low Rate Initial Production (LRIP). The 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. In August 2015 the program received approval for Full Rate Production (FRP), and the Acquisition Program Baseline was re-established. The first FRP Contract (FRP-1) was awarded in 2015 and FRP-2 awarded in 2016. The program plans to award FRP-3 in 2017 and FRP-4 in 2018.

In FY17 the program will begin to produce a third variant of the missile labeled the AIM-9X Block II PLUS (Block II+) to meet survivability requirements inherent to the 5th generation aircraft platforms. The Block II + will be procured only for specific critical mission area and the balance of the AIM-9X inventory will be continue to be produced as regular Block II missiles to meet munitions requirement. In FY17 the missile will also incorporate the obsolescence redesign of the control actuator system battery into both Block II and Block II+ variants.

The nomenclature used by the Prime Vendor for contracting purposes distinguishes the 3 types of AIM-9X missiles as such: AIM-9X-1 is the designation used for the AIM-9X Block I missile. AIM-9X-2 is the designation use for the AIM-9X Block II missile. AIM-9X-3 is the designation used for the AIM-9X Block II Plus missile.

Beginning in FY20, the missile will incorporate tech refresh of critical obsolete components required to ensure future producibility due to Diminishing Manufacturing Sources (DMS). Specific planned hardware updates include the inertial measurement unit, the dome and the guidance unit processor. The anticipated nomenclature to be used by the Prime Vendor for contracting purposes for the Lot 20 (FY 2020) hardware upgrades are AIM-9X-4 for AIM-9X Block II missiles, and AIM-9X-5 for AIM-9X Block II Plus missiles.

Funding for this exhibit contained in PE 0207161F.

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force								<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical						<b>P-1 Line Item Number / Title:</b> M09HAI / Sidewinder (AIM-9X)				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0207161F			
<b>Line Item MDAP/MAIS Code:</b> 442										
<b>Exhibits Schedule</b>					<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>MDAP/MAIS Code</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
P-5	Sidewinder (AIM-9X)	P-5a, P-21	A		911 / 469.133	506 / 198.247	287 / 127.438	310 / 125.350	- / 0.000	310 / 125.350
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>911 / 469.133</b>	<b>506 / 198.247</b>	<b>287 / 127.438</b>	<b>310 / 125.350</b>	<b>- / 0.000</b>	<b>310 / 125.350</b>
*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.										
<p><b>Justification:</b></p> <p>FY18 provides funding to procure the fourth lot of Full Rate Production (FRP) AIM-9X Block II (Blk II) missiles, as well as the second lot of AIM-9X Block II Plus (Blk II+) All Up Round missiles for the Air Force. FY18 also begins the procurement of missiles for the US Army upon successful Milestone C approval of the Indirect Fire Protection Capability Increment 2 (IFPC2) program in FY18. US Army IFPC2 is currently funded under RDTE,AF PE 0604319A,Project DU3 (R1-72). Unit costs are based on quantities procured by all services including the Navy and Army, as well as Foreign Military Sales.</p> <p>Total Program quantity by service includes a mix of All Up Round (AUR) missiles and Captive Air Training Missiles (CATM) as such:</p> <p>The US Air Force will procure 5,097 total missiles under Budget Line Item 3479 (P1-4): 1,678 Block I missiles (1,093 AURs and 585 CATMs) and 3,352 Block II missiles, including Block II+ (2,859 AURs and 493 CATMs). In addition, the US Air Force procured 67 Block I missiles in FY 2001 under the AIM-9M Modification program (45 AURs and 22 CATMs).</p> <p>The US Navy will procure 3,937 total missiles under this Budget Line Item: 1,289 Block I missiles (885 AURs and 404 CATMs) and 2,648 Block II missiles, including Block II+ (1591 AURs and 581 CATMs). In addition, the US Navy procured 63 Block I missiles in FY 2001 under the AIM-9M Modification program (48 AURs and 15 CATMs).</p> <p>The US Army will begin to procure AIM-9X Block II missiles under Budget Line Item C6100 (P1-3) for the Integrated Fire Protection Control (IFPC) Increment 2 Program.</p> <p>USAF will procure 310 end items in FY18.</p> <p>Note: Procurement quantities can change based on negotiated options/pricing bands and available funding, in accordance with Title 10, U.S Code Section 2308 BUY-TO-BUDGET ACQUISITION.</p>										



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Exhibit P-5, Cost Analysis: FY 2018 Air Force													Date: May 2017								
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
Procurement Quantity <i>(Units in Each)</i>				911			506			287			310			-			310		
Gross/Weapon System Cost <i>(\$ in Millions)</i>				469.133			198.247			127.438			125.350			0.000			125.350		
Less PY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Net Procurement (P-1) <i>(\$ in Millions)</i>				469.133			198.247			127.438			125.350			0.000			125.350		
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-			-			-			-			-			-		
Total Obligation Authority <i>(\$ in Millions)</i>				469.133			198.247			127.438			125.350			0.000			125.350		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares <i>(\$ in Millions)</i>				8.021			0.604			7.684			5.708			-			5.708		
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>				0.515			0.392			0.444			0.404			-			0.404		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements		Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 <sup>(t)</sup>		0.426	647	275.397	0.367	429	157.619	0.374	70	26.155	0.378	135	51.057	-	-	-	0.378	135	51.057		
Captive Air Training Missile (CATM) - Block II <sup>(t)</sup>		0.236	264	62.297	0.193	77	14.872	0.211	77	16.243	0.213	75	15.951	-	-	-	0.213	75	15.951		
Engineering Change Orders - Block II		-	-	2.038	-	-	0.000	-	-	2.557	-	-	2.786	-	-	-	-	-	2.786		
Diminishing Manufacturing Sources		-	-	2.711	-	-	1.832	-	-	1.544	-	-	1.574	-	-	-	-	-	1.574		
Government Cost (GFE & Testing) - Block II		-	-	0.108	-	-	0.276	-	-	0.091	-	-	0.104	-	-	-	-	-	0.104		
Special Test/Special Tooling Equipment - Block II		-	-	9.954	-	-	1.606	-	-	2.448	-	-	1.997	-	-	-	-	-	1.997		
Missile Containers - Block II		0.014	256	3.475	0.012	140	1.743	0.012	81	0.947	0.012	87	1.038	-	-	-	0.012	87	1.038		
Non-Recurring Engineering - Block II		-	-	40.304	-	-	11.703	-	-	11.858	-	-	1.047	-	-	-	-	-	1.047		
All Up Round - Block II Plus <sup>(t)</sup>		-	-	-	-	-	-	0.410	140	57.343	0.414	100	41.353	-	-	-	0.414	100	41.353		
Subtotal: Recurring Cost		-	-	396.284	-	-	189.651	-	-	119.186	-	-	116.907	-	-	-	-	-	116.907		

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Exhibit P-5, Cost Analysis: FY 2018 Air Force												Date: May 2017						
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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: Flyaway - Flyaway End Item Cost	-	-	396.284	-	-	189.651	-	-	119.186	-	-	116.907	-	-	-	-	-	116.907
Support - Support End Item Cost																		
Production Tech Support	-	-	18.080	-	-	0.903	-	-	1.977	-	-	2.016	-	-	-	-	-	2.016
Peculiar Support Equipment - Block II	-	-	0.061	-	-	0.000	-	-	0.033	-	-	0.033	-	-	-	-	-	0.033
Test Equipment - Block II	-	-	10.304	-	-	0.000	-	-	0.712	-	-	1.074	-	-	-	-	-	1.074
PMA Contractor Services - Block II	-	-	7.318	-	-	1.598	-	-	1.251	-	-	1.259	-	-	-	-	-	1.259
PMA Other Government Costs - Block II	-	-	37.086	-	-	6.095	-	-	4.251	-	-	4.032	-	-	-	-	-	4.032
Training Support - Block II	-	-	-	-	-	0.000	-	-	0.028	-	-	0.029	-	-	-	-	-	0.029
Subtotal: Support - Support End Item Cost	-	-	72.849	-	-	8.596	-	-	8.252	-	-	8.443	-	-	-	-	-	8.443
Gross/Weapon System Cost	0.515	911	469.133	0.392	506	198.247	0.444	287	127.438	0.404	310	125.350	-	-	0.000	0.404	310	125.350
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 FY17 Contract is scheduled for award in March 2017 and procures the Full Rate Production (FRP) missile.  Quantities increased in FY18 - FY22 due to favorable pricing in new production contract.  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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<b>Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force</b>									<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 02 / 2			<b>P-1 Line Item Number / Title:</b> M09HAI / Sidewinder (AIM-9X)						<b>Item Number / Title [DODIC]:</b> - / Sidewinder (AIM-9X)			
<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
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 <sup>(†)</sup>		2014	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Jun 2014	Mar 2016	170	0.395	Y		Jan 2013
All Up Round - Block II <sup>(†)</sup>		2015	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Sep 2015	Jan 2017	243	0.401	Y		Jan 2014
All Up Round - Block II <sup>(†)</sup>		2016	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Jul 2016	Sep 2017	429	0.367	Y		Jan 2015
All Up Round - Block II <sup>(†)</sup>		2017	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Mar 2017	Sep 2018	70	0.374	Y		Jan 2016
All Up Round - Block II <sup>(†)</sup>		2018	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Mar 2018	Sep 2019	135	0.378	Y		Jan 2017
Captive Air Training Missile (CATM) - Block II <sup>(†)</sup>		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 <sup>(†)</sup>		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 <sup>(†)</sup>		2015	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Sep 2015	Sep 2016	60	0.210	Y		Jan 2014
Captive Air Training Missile (CATM) - Block II <sup>(†)</sup>		2016	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Jul 2016	Sep 2017	77	0.193	Y		Jan 2015
Captive Air Training Missile (CATM) - Block II <sup>(†)</sup>		2017	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2017	Sep 2018	77	0.211	Y		Jan 2016
Captive Air Training Missile (CATM) - Block II <sup>(†)</sup>		2018	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2018	Sep 2019	75	0.213	Y		Jan 2017
All Up Round - Block II Plus <sup>(†)</sup>		2017	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2017	Sep 2018	140	0.410	Y		Jan 2016
All Up Round - Block II Plus <sup>(†)</sup>		2018	Raytheon Missile Systems / Tucson, AZ	C / FPIF	NAVAIR	Feb 2018	Sep 2019	100	0.414	Y		Jan 2017
<p><sup>(†)</sup> indicates the presence of a P-21</p> <p><b>Remarks:</b> FY17 is forecasted to be the third Lot of Full Rate Production Block II missiles FY18 is forecasted to be the fourth lot of Full Rate Production Block II missiles</p> <p>Procurement quantities are estimates only and fall within a range of quantities based on negotiations for each specific lot contract</p>												

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Exhibit P-21, Production Schedule: FY 2018 Air Force																				Date: May 2017																						
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 C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 2	BAL D U E A S O F 1 O C T			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	2014	AF		170	0	170																										A -	-	-	-	170					
	1	2014	NAVY <sup>(+)</sup> (1)		167	0	167																										A -	-	-	-	167					
	1	2014	FMS <sup>(+)</sup> (2)		194	0	194																										A -	-	-	-	194					
	1	2014	Total		531	0	531																										-	-	-	-	531					
	1	2015	AF		243	0	243																														243					
	1	2015	NAVY <sup>(+)</sup>		102	0	102																														102					
	1	2015	FMS <sup>(+)</sup>		104	0	104																														104					
	1	2015	Total		449	0	449																														449					
	1	2016	AF		429	0	429																														429					
	1	2016	FMS <sup>(+)</sup>		64	0	64																														64					
	1	2016	ARMY <sup>(+)</sup>		7	0	7																														7					
	1	2016	Total		500	0	500																														500					
	1	2017	AF		70	0	70																														70					
	1	2017	FMS <sup>(+)</sup>		125	0	125																														125					
	1	2017	NAVY <sup>(+)</sup>		50	0	50																														50					
	1	2017	Total		245	0	245																														245					
	1	2018	AF		135	0	135																														135					
	1	2018	ARMY <sup>(+)</sup>		142	0	142																														142					
	1	2018	NAVY <sup>(+)</sup>		101	0	101																														101					
	1	2018	Total		378	0	378																														378					
Captive Air Training Missile (CATM) - Block II																																										
Prior Years Deliveries: 91																																										
	2	2013	AF <sup>(3)</sup>		58	0	58											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	0							
	2	2013	NAVY <sup>(+)</sup> (4)		58	0	58											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	0							
	2	2013	FMS <sup>(+)</sup> (5)		62	0	62											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	0							
	2	2013	Total		178	0	178											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	178	0								
	2	2014	AF		55	0	55																														A -	-	-	-	-	55
	2	2014	NAVY <sup>(+)</sup> (6)		49	0	49																														A -	-	-	-	-	49
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: FY 2018 Air Force																			Date: May 2017													
Appropriation / Budget Activity / Budget Sub Activity:							P-1 Line Item Number / Title:												Item Number / Title [DODIC]:													
3020F / 02 / 2							M09HAI / Sidewinder (AIM-9X)												- / Sidewinder (AIM-9X)													
Cost Elements (Units in Each)							Fiscal Year 2013												Fiscal Year 2014												B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 2	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		
	2	2014	FMS (\$) <sup>(7)</sup>	60	0	60																										60
	2	2014	Total	164	0	164																										164
	2	2015	AF	60	0	60																										60
	2	2015	ARMY (\$)	2	0	2																										2
	2	2015	NAVY (\$)	54	0	54																										54
	2	2015	FMS (\$)	13	0	13																										13
	2	2015	Total	129	0	129																										129
	2	2016	AF	77	0	77																										77
	2	2016	NAVY (\$)	47	0	47																										47
	2	2016	FMS (\$)	128	0	128																										128
	2	2016	Total	252	0	252																										252
	2	2017	AF	77	0	77																										77
	2	2017	NAVY (\$)	24	0	24																										24
	2	2017	FMS (\$)	92	0	92																										92
	2	2017	Total	193	0	193																										193
	2	2018	AF	75	0	75																										75
	2	2018	ARMY (\$)	3	0	3																										3
	2	2018	NAVY (\$)	44	0	44																										44
	2	2018	Total	122	0	122																										122
All Up Round - Block II Plus																																
	3	2017	AF	140	0	140																										140
	3	2017	NAVY (\$)	78	0	78																										78
	3	2017	Total	218	0	218																										218
	3	2018	AF	100	0	100																										100
	3	2018	FMS (\$)	92	0	92																										92
	3	2018	NAVY (\$)	40	0	40																										40
	3	2018	Total	232	0	232																										232
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: FY 2018 Air Force																				Date: May 2017													
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 C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016																
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y		J U N	J U L	A U G	S E P		
All Up Round - Block II																																	
Prior Years Deliveries: 142																																	
	1	2014	AF	170	0	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	66	60	-	-	12		0		
	1	2014	NAVY <sup>(†)</sup> (1)	167	0	167	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	77	42	-	-	-	6	-		0		
	1	2014	FMS <sup>(†)</sup> (2)	194	0	194	-	-	-	-	-	-	-	-	-	-	-	16	16	16	16	16	35	16	16	16	16	15		0			
	1	2014	Total	531	0	531	-	-	-	-	-	-	-	-	-	-	-	16	16	16	58	93	109	82	76	16	22	27	-	0			
	1	2015	AF	243	0	243											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	243	
	1	2015	NAVY <sup>(†)</sup>	102	0	102											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	101
	1	2015	FMS <sup>(†)</sup>	104	0	104											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104
	1	2015	Total	449	0	449											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	448
	1	2016	AF	429	0	429																					A -	-	-	-	429		
	1	2016	FMS <sup>(†)</sup>	64	0	64																					A -	-	-	-	64		
	1	2016	ARMY <sup>(†)</sup>	7	0	7																					A -	-	-	-	7		
	1	2016	Total	500	0	500																					-	-	-	-	500		
	1	2017	AF	70	0	70																									70		
	1	2017	FMS <sup>(†)</sup>	125	0	125																									125		
	1	2017	NAVY <sup>(†)</sup>	50	0	50																									50		
	1	2017	Total	245	0	245																									245		
	1	2018	AF	135	0	135																									135		
	1	2018	ARMY <sup>(†)</sup>	142	0	142																									142		
	1	2018	NAVY <sup>(†)</sup>	101	0	101																									101		
	1	2018	Total	378	0	378																									378		
Captive Air Training Missile (CATM) - Block II																																	
Prior Years Deliveries: 91																																	
	2	2013	AF <sup>(3)</sup>	58	58	0																									0		
	2	2013	NAVY <sup>(†)</sup> (4)	58	58	0																									0		
	2	2013	FMS <sup>(†)</sup> (5)	62	62	0																									0		
	2	2013	Total	178	178	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	2	2014	AF	55	0	55	-	-	-	-	-	-	-	-	-	-	-	-	-	36	19	-	-	-	-	-	-	-	-	-	0		
	2	2014	NAVY <sup>(†)</sup> (6)	49	0	49	-	-	-	-	-	-	-	-	-	-	-	-	43	4	-	-	-	-	-	-	-	-	2	-	0		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: FY 2018 Air Force

Date: May 2017

Appropriation / Budget Activity / Budget Sub Activity:  
3020F / 02 / 2P-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 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																	
	2	2014	FMS <sup>(‡)</sup> (7)	60	0	60	-	-	-	-	-	-	-	-	-	-	-	-	5	5	10	5	5	5	5	5	5	5	5		0																	
	2	2014	Total	164	0	164	-	-	-	-	-	-	-	-	-	-	-	-	5	48	50	24	5	5	5	5	5	5	7	-	0																	
	2	2015	AF	60	0	60													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	12	48														
	2	2015	ARMY <sup>(‡)</sup>	2	0	2													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2														
	2	2015	NAVY <sup>(‡)</sup>	54	0	54													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	54	0														
	2	2015	FMS <sup>(‡)</sup>	13	0	13													A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13														
	2	2015	Total	129	0	129													-	-	-	-	-	-	-	-	-	-	-	-	-	-	66	63														
	2	2016	AF	77	0	77																									A -	-	-	-	77													
	2	2016	NAVY <sup>(‡)</sup>	47	0	47																									A -	-	-	-	47													
	2	2016	FMS <sup>(‡)</sup>	128	0	128																									A -	-	-	-	128													
	2	2016	Total	252	0	252																									-	-	-	-	252													
	2	2017	AF	77	0	77																																									77	
	2	2017	NAVY <sup>(‡)</sup>	24	0	24																																									24	
	2	2017	FMS <sup>(‡)</sup>	92	0	92																																									92	
	2	2017	Total	193	0	193																																									193	
	2	2018	AF	75	0	75																																									75	
	2	2018	ARMY <sup>(‡)</sup>	3	0	3																																								3		
	2	2018	NAVY <sup>(‡)</sup>	44	0	44																																								44		
	2	2018	Total	122	0	122																																									122	
All Up Round - Block II Plus																																																
	3	2017	AF	140	0	140																																									140	
	3	2017	NAVY <sup>(‡)</sup>	78	0	78																																									78	
	3	2017	Total	218	0	218																																										218
	3	2018	AF	100	0	100																																									100	
	3	2018	FMS <sup>(‡)</sup>	92	0	92																																									92	
	3	2018	NAVY <sup>(‡)</sup>	40	0	40																																									40	
	3	2018	Total	232	0	232																																										232
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P																		

## UNCLASSIFIED

Exhibit P-21, Production Schedule: FY 2018 Air Force																				Date: May 2017																
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 C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 6	BAL 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					
All Up Round - Block II																																				
Prior Years Deliveries: 142																																				
	1	2014	AF		170	170	0																											0		
	1	2014	NAVY <sup>(†)</sup> (1)		167	167	0																											0		
	1	2014	FMS <sup>(†)</sup> (2)		194	194	0																											0		
	1	2014	Total		531	531	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	1	2015	AF		243	0	243	-	-	-	28	52	63	50	50	-	-	-	-	-	-	-							0							
	1	2015	NAVY <sup>(†)</sup>		102	1	101	-	35	35	21	10	-	-	-	-	-	-	-	-	-							0								
	1	2015	FMS <sup>(†)</sup>		104	0	104	-	-	-	9	9	9	8	9	8	9	8	9	9	9							0								
	1	2015	Total		449	1	448	-	35	35	58	71	72	58	59	8	9	8	9	8	9	9	-	-	-	-	-	-	-	-	-	0				
	1	2016	AF		429	0	429	-	-	-	-	-	-	-	-	-	-	36	36	36	36	36	36	36	36	36	35	35	35		0					
	1	2016	FMS <sup>(†)</sup>		64	0	64	-	-	-	-	-	-	-	-	-	-	6	5	5	6	5	5	6	5	5	6	5	5		0					
	1	2016	ARMY <sup>(†)</sup>		7	0	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1		0					
	1	2016	Total		500	0	500	-	-	-	-	-	-	-	-	-	-	42	41	41	42	41	42	43	42	42	42	41	41	-	0					
	1	2017	AF		70	0	70						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	64					
	1	2017	FMS <sup>(†)</sup>		125	0	125						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125					
	1	2017	NAVY <sup>(†)</sup>		50	0	50						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	45					
	1	2017	Total		245	0	245						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	234					
	1	2018	AF		135	0	135																					A	-	-	-	-	-	-	-	135
	1	2018	ARMY <sup>(†)</sup>		142	0	142																					A	-	-	-	-	-	-	-	142
	1	2018	NAVY <sup>(†)</sup>		101	0	101																					A	-	-	-	-	-	-	-	101
	1	2018	Total		378	0	378																					-	-	-	-	-	-	-	-	378
Captive Air Training Missile (CATM) - Block II																																				
Prior Years Deliveries: 91																																				
	2	2013	AF <sup>(3)</sup>		58	58	0																											0		
	2	2013	NAVY <sup>(†)</sup> (4)		58	58	0																											0		
	2	2013	FMS <sup>(†)</sup> (5)		62	62	0																											0		
	2	2013	Total		178	178	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
	2	2014	AF		55	55	0																											0		
	2	2014	NAVY <sup>(†)</sup> (6)		49	49	0																											0		
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					



## UNCLASSIFIED

Exhibit P-21, Production Schedule: FY 2018 Air Force																				Date: May 2017															
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: M09HAI / Sidewinder (AIM-9X)										Item Number / Title [DODIC]: - / Sidewinder (AIM-9X)															
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2017												Fiscal Year 2018												BALANCE				
OCO#	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018																
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
	2	2014	FMS <sup>(+)</sup> (7)	60	60	0																													0
	2	2014	Total	164	164	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	2	2015	AF	60	12	48	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-													0	
	2	2015	ARMY <sup>(+)</sup>	2	0	2	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-													0	
	2	2015	NAVY <sup>(+)</sup>	54	54	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-													0	
	2	2015	FMS <sup>(+)</sup>	13	0	13	-	-	-	2	1	1	1	1	1	1	1	1	1	1	1													0	
	2	2015	Total	129	66	63	48	-	-	2	1	1	1	1	1	2	2	1	1	1	1	-	-	-	-	-	-	-	-	-	-	0			
	2	2016	AF	77	0	77	-	-	-	-	-	-	-	-	-	-	6	7	6	7	6	7	6	7	6	7	6	6	-	-	0				
	2	2016	NAVY <sup>(+)</sup>	47	0	47	-	-	-	-	-	-	-	-	-	-	5	5	5	5	4	4	4	3	3	3	3	3	-	-	0				
	2	2016	FMS <sup>(+)</sup>	128	0	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	11	11	10	11	11	10	11	11		32				
	2	2016	Total	252	0	252	-	-	-	-	-	-	-	-	-	-	11	12	11	12	20	22	21	20	20	21	19	20	11		32				
	2	2017	AF	77	0	77						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	69					
	2	2017	NAVY <sup>(+)</sup>	24	0	24						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	22					
	2	2017	FMS <sup>(+)</sup>	92	0	92						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92					
	2	2017	Total	193	0	193						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	183					
	2	2018	AF	75	0	75																												75	
	2	2018	ARMY <sup>(+)</sup>	3	0	3																												3	
	2	2018	NAVY <sup>(+)</sup>	44	0	44																												44	
	2	2018	Total	122	0	122																												122	
All Up Round - Block II Plus																																			
	3	2017	AF	140	0	140						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	128				
	3	2017	NAVY <sup>(+)</sup>	78	0	78						A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	71				
	3	2017	Total	218	0	218						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	199				
	3	2018	AF	100	0	100																												100	
	3	2018	FMS <sup>(+)</sup>	92	0	92																												92	
	3	2018	NAVY <sup>(+)</sup>	40	0	40																												40	
	3	2018	Total	232	0	232																												232	
							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: FY 2018 Air Force																				Date: May 2017													
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:													
3020F / 02 / 2										M09HAI / Sidewinder (AIM-9X)										- / Sidewinder (AIM-9X)													
Cost Elements (Units in Each)							Fiscal Year 2019										Fiscal Year 2020													BALANCE			
OCO #	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT				Calendar Year 2019										Calendar Year 2020													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP		
All Up Round - Block II																																	
Prior Years Deliveries: 142																																	
	1	2014	AF		170	170	0																									0	
	1	2014	NAVY <sup>(‡) (1)</sup>		167	167	0																									0	
	1	2014	FMS <sup>(‡) (2)</sup>		194	194	0																									0	
	1	2014	Total		531	531	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	1	2015	AF		243	243	0																									0	
	1	2015	NAVY <sup>(‡)</sup>		102	102	0																									0	
	1	2015	FMS <sup>(‡)</sup>		104	104	0																									0	
	1	2015	Total		449	449	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	1	2016	AF		429	429	0																									0	
	1	2016	FMS <sup>(‡)</sup>		64	64	0																									0	
	1	2016	ARMY <sup>(‡)</sup>		7	7	0																									0	
	1	2016	Total		500	500	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	1	2017	AF		70	6	64	6	6	6	6	5	6	6	6	6	5	-	-	-	-								0				
	1	2017	FMS <sup>(‡)</sup>		125	0	125	-	-	-	11	10	11	10	11	10	11	10	10	10								0					
	1	2017	NAVY <sup>(‡)</sup>		50	5	45	5	4	4	4	4	4	4	4	4	4	-	-	-	-								0				
	1	2017	Total		245	11	234	11	10	10	21	19	21	20	21	20	21	19	11	10	10	10	-	-	-	-	-	-	-	-	0		
	1	2018	AF		135	0	135	-	-	-	-	-	-	-	-	-	-	13	13	12	12	12	12	12	11	11	11	11	5		0		
	1	2018	ARMY <sup>(‡)</sup>		142	0	142	-	-	-	-	-	-	-	-	-	-	35	15	12	12	10	10	10	9	9	9	6	5		0		
	1	2018	NAVY <sup>(‡)</sup>		101	0	101	-	-	-	-	-	-	-	-	-	-	10	9	9	9	8	8	8	8	8	8	8	8		0		
	1	2018	Total		378	0	378	-	-	-	-	-	-	-	-	-	-	58	37	33	33	30	30	30	28	28	28	25	18	-	0		
Captive Air Training Missile (CATM) - Block II																																	
Prior Years Deliveries: 91																																	
	2	2013	AF <sup>(3)</sup>		58	58	0																									0	
	2	2013	NAVY <sup>(‡) (4)</sup>		58	58	0																									0	
	2	2013	FMS <sup>(‡) (5)</sup>		62	62	0																									0	
	2	2013	Total		178	178	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	2	2014	AF		55	55	0																									0	
	2	2014	NAVY <sup>(‡) (6)</sup>		49	49	0																									0	
								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: FY 2018 Air Force																		Date: May 2017														
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														BALANCE
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019											Calendar Year 2020														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
	2	2014	FMS (+) (7)	60	60	0																								0		
	2	2014	Total	164	164	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	2	2015	AF	60	60	0																								0		
	2	2015	ARMY (+)	2	2	0																								0		
	2	2015	NAVY (+)	54	54	0																								0		
	2	2015	FMS (+)	13	13	0																								0		
	2	2015	Total	129	129	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	2	2016	AF	77	77	0	-	-	-																					0		
	2	2016	NAVY (+)	47	47	0	-	-	-																					0		
	2	2016	FMS (+)	128	96	32	10	11	11																					0		
	2	2016	Total	252	220	32	10	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
	2	2017	AF	77	8	69	8	7	6	6	6	6	6	6	6	-	-	-	-											0		
	2	2017	NAVY (+)	24	2	22	2	2	2	2	2	2	2	2	2	-	-	-	-											0		
	2	2017	FMS (+)	92	0	92	-	-	-	8	8	7	8	8	7	8	8	7												0		
	2	2017	Total	193	10	183	10	9	8	16	16	15	16	16	15	16	16	7	8	8	7	-	-	-	-	-	-	-	-	0		
	2	2018	AF	75	0	75	-	-	-	-	-	-	-	-	-	6	6	6	7	6	6	6	7	6	6	6	7			0		
	2	2018	ARMY (+)	3	0	3	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-			0		
	2	2018	NAVY (+)	44	0	44	-	-	-	-	-	-	-	-	-	5	5	4	4	4	4	3	3	3	3	3	3			0		
	2	2018	Total	122	0	122	-	-	-	-	-	-	-	-	-	12	12	11	11	10	10	9	10	9	9	9	10	-		0		
All Up Round - Block II Plus																																
	3	2017	AF	140	12	128	12	11	12	12	11	12	12	11	12	12	11													0		
	3	2017	NAVY (+)	78	7	71	6	7	6	7	6	7	6	7	6															0		
	3	2017	Total	218	19	199	18	18	18	19	17	19	18	18	18	19	17	-	-	-	-	-	-	-	-	-	-	-	-	0		
	3	2018	AF	100	0	100	-	-	-	-	-	-	-	-	-	8	8	9	8	8	9	8	8	9	8	8	9			0		
	3	2018	FMS (+)	92	0	92	-	-	-	-	-	-	-	-	-	8	8	7	8	8	7	8	8	7	8	8	7			0		
	3	2018	NAVY (+)	40	0	40	-	-	-	-	-	-	-	-	-	5	4	5	3	4	3	3	3	3	2	3	2			0		
	3	2018	Total	232	0	232	-	-	-	-	-	-	-	-	-	21	20	21	19	20	19	19	19	19	18	19	18	-		0		
							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: FY 2018 Air Force									Date: May 2017			
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 2018	1-8-5 For 2018	MAX For 2018	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Raytheon Missile Systems - Tucson, AZ	300	600	1,400	0	0	0	0	0	6	18	24
2	Raytheon Missile Systems - Tucson, AZ	300	600	1,400	0	0	0	0	0	5	19	24
3	Raytheon Missile Systems - Tucson, AZ	300	600	1,400	0	0	0	0	0	5	19	24
<p><b>Remarks:</b> 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), Missile Container (Item 3) and All Up Round Block II Plus (Item 4). The ECON rate is 600 missiles of any mix required, and the MAX production rate is 1,400 missiles of any mix required.</p> <p>The MSR is for the combination of CATM, AUR Block II and AUR Block II+. Each individual item does not have an MSR. The MSR needs to be met by the overall program and not just per service. The MSR is shared by the USAF, USN, Army and FMS.</p> <p>Annual Production Rate limitations are based on 4 missiles per 1 container ratio.</p> <p>(‡) 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.</p> <p>"A" in the Delivery Schedule indicates the Contract Award Date.</p> <p><b>Note:</b> 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).</p> <p><b>Footnotes:</b></p> <p>(1) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2015 loaded in the month of first delivery.</p> <p>(2) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2015 loaded in the month of first delivery.</p> <p>(3) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2015 loaded in the month of first delivery.</p> <p>(4) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2015 loaded in the month of first delivery.</p> <p>(5) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2015 loaded in the month of first delivery.</p> <p>(6) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2015 loaded in the month of first delivery.</p> <p>(7) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2015 loaded in the month of first delivery.</p>												

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical	<b>P-1 Line Item Number / Title:</b> MAMRA0 / AMRAAM
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207163F
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**Line Item MDAP/MAIS Code:** 185

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	9,246	281	256	205	-	205	400	371	431	394	1,267	12,851
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	8,700.083	362.028	350.144	304.327	0.000	304.327	470.016	430.962	468.452	444.471	1,444.425	12,974.908
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	8,700.083	362.028	350.144	304.327	0.000	304.327	470.016	430.962	468.452	444.471	1,444.425	12,974.908
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>8,700.083</b>	<b>362.028</b>	<b>350.144</b>	<b>304.327</b>	<b>0.000</b>	<b>304.327</b>	<b>470.016</b>	<b>430.962</b>	<b>468.452</b>	<b>444.471</b>	<b>1,444.425</b>	<b>12,974.908</b>
<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> )	80.977	1.996	2.072	2.067	-	2.067	2.041	2.076	2.113	2.155	6.715	102.212
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	0.941	1.288	1.368	1.485	-	1.485	1.175	1.162	1.087	1.128	1.140	1.010

**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.

FY18: Due to parts limitations with Processor Replacement Program (PRP) missile configuration and a delay in the Form, Fit, Function Refresh (F3R) effort, the program office has adjusted FY18 production quantities to ensure a smooth production cut-in of F3R design in FY19. There is a delta between USAF and USN All Up Round Unit Cost based on the different ratios of each missile type for each service.

Funding for this exhibit is contained in PE 0207163F.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force								<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical						<b>P-1 Line Item Number / Title:</b> MAMRA0 / AMRAAM				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0207163F			
<b>Line Item MDAP/MAIS Code:</b> 185										
<b>Exhibits Schedule</b>					<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>MDAP/MAIS Code</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
P-5	AMRAAM	P-5a, P-21	A		9,246 / 8,700.083	281 / 362.028	256 / 350.144	205 / 304.327	- / 0.000	205 / 304.327
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>9,246 / 8,700.083</b>	<b>281 / 362.028</b>	<b>256 / 350.144</b>	<b>205 / 304.327</b>	<b>- / 0.000</b>	<b>205 / 304.327</b>
<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><b>Justification:</b></p> <p>FY18 continues procurement and support of AMRAAM for the Air Force and Navy in Lot 32. USAF funds will procure 205 AIM-120D missiles. Also, will modify existing and build additional tooling and test equipment to support 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/Obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement and qualification activities to preserve future production capabilities and capacities. Continue to procure Telemetry (TM) Instrumentation Units for Weapon System Evaluation Program (WSEP).</p> <p>Note: Procurement quantities can change based on negotiated options/pricing bands and available funding, in accordance with Title 10, U.S Code Section 2308 BUY-TO-BUDGET ACQUISITION.</p>										

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Exhibit P-5, Cost Analysis: FY 2018 Air Force												Date: May 2017							
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 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total					
Procurement Quantity <i>(Units in Each)</i>				9,246		281		256		205		-		205					
Gross/Weapon System Cost <i>(\$ in Millions)</i>				8,700.083		362.028		350.144		304.327		0.000		304.327					
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Net Procurement (P-1) <i>(\$ in Millions)</i>				8,700.083		362.028		350.144		304.327		0.000		304.327					
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-					
Total Obligation Authority <i>(\$ in Millions)</i>				8,700.083		362.028		350.144		304.327		0.000		304.327					
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares <i>(\$ in Millions)</i>				80.977		1.996		2.072		2.067		0.000		2.067					
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>				0.941		1.288		1.368		1.485		-		1.485					
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																			
Cost Elements		Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
		Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Hardware - Hardware End Item Cost																			
Recurring Cost																			
AIM-120 Missile All Up Round (AUR) <sup>(†)</sup>	1.352	838	1,133.130	0.940	281	264.108	1.012	256	259.022	1.127	205	231.021	-	-	0.000	1.127	205	231.021	
AIM-120 Missile Captive Air Training Missile (CATM)	0.635	444	281.823	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000	
Warranty	-	-	70.328	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000	
Diminishing Manufacturing Sources/Material Shortages (DMS/MS)	-	-	330.062	-	-	50.335	-	-	39.686	-	-	23.604	-	-	-	-	-	23.604	
Tooling and Test Equipment	-	-	67.543	-	-	11.579	-	-	12.215	-	-	9.772	-	-	-	-	-	9.772	
Engineering Change Orders	-	-	2.755	-	-	1.209	-	-	1.202	-	-	1.469	-	-	-	-	-	1.469	
Total Prior Years Costs	0.822	7,964	6,545.560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Recurring Cost	-	-	8,431.201	-	-	327.231	-	-	312.125	-	-	265.866	-	-	0.000	-	-	265.866	
Subtotal: Hardware - Hardware End Item Cost	-	-	8,431.201	-	-	327.231	-	-	312.125	-	-	265.866	-	-	0.000	-	-	265.866	
Ancillary Equipment - AncillaryEquipment End Item Cost																			
Recurring Cost																			
Containers and Cables	-	-	5.686	-	-	0.896	-	-	0.896	-	-	0.896	-	-	-	-	-	0.896	

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<b>Exhibit P-5, Cost Analysis: FY 2018 Air Force</b>														<b>Date:</b> May 2017				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 02 / 2							<b>P-1 Line Item Number / Title:</b> MAMRA0 / AMRAAM							<b>Item Number / Title [DODIC]:</b> - / AMRAAM				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A										<b>MDAP/MAIS Code:</b>								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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: Recurring Cost	-	-	5.686	-	-	0.896	-	-	0.896	-	-	0.896	-	-	-	-	-	0.896
Subtotal: Ancillary Equipment - Ancillary Equipment End Item Cost	-	-	5.686	-	-	0.896	-	-	0.896	-	-	0.896	-	-	-	-	-	0.896
Support - Support End Item Cost																		
Production Test/Support	-	-	104.330	-	-	6.227	-	-	7.586	-	-	7.460	-	-	-	-	-	7.460
PMA Other Government Costs	-	-	9.555	-	-	1.379	-	-	1.531	-	-	1.539	-	-	-	-	-	1.539
PMA Contractor Services	-	-	13.014	-	-	2.400	-	-	2.454	-	-	2.503	-	-	-	-	-	2.503
Training Equipment	-	-	136.297	-	-	23.895	-	-	25.552	-	-	26.063	-	-	-	-	-	26.063
Subtotal: Support - Support End Item Cost	-	-	263.196	-	-	33.901	-	-	37.123	-	-	37.565	-	-	-	-	-	37.565
<b>Gross/Weapon System Cost</b>	<b>0.941</b>	<b>9,246</b>	<b>8,700.083</b>	<b>1.288</b>	<b>281</b>	<b>362.028</b>	<b>1.368</b>	<b>256</b>	<b>350.144</b>	<b>1.485</b>	<b>205</b>	<b>304.327</b>	-	-	<b>0.000</b>	<b>1.485</b>	<b>205</b>	<b>304.327</b>
<b>Remarks:</b> 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, F-35 and test range infrastructure.  (†) indicates the presence of a P-5a																		



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<b>Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force</b>								<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 02 / 2				<b>P-1 Line Item Number / Title:</b> MAMRA0 / AMRAAM				<b>Item Number / Title [DODIC]:</b> - / AMRAAM			

<b>Cost Elements</b>	<b>O C O</b>	<b>FY</b>	<b>Contractor and Location</b>	<b>Method/Type or Funding Vehicle</b>	<b>Location of PCO</b>	<b>Award Date</b>	<b>Date of First Delivery</b>	<b>Qty (Each)</b>	<b>Unit Cost (\$ M)</b>	<b>Specs Avail Now?</b>	<b>Date Revision Available</b>	<b>RFP Issue Date</b>
AIM-120 Missile All Up Round (AUR) <sup>(†)</sup>		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) <sup>(†)</sup>		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) <sup>(†)</sup>		2016	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Mar 2016	Apr 2018	281	0.940	Y		Jul 2013
AIM-120 Missile All Up Round (AUR) <sup>(†)</sup>		2017	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Oct 2017	Nov 2019	256	1.012	Y		Mar 2016
AIM-120 Missile All Up Round (AUR) <sup>(†)</sup>		2018	Raytheon Missile Systems / Tucson, AZ	SS / FPIF	Eglin AFB	Jul 2018	Aug 2020	205	1.127	Y		Mar 2017

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

1) Unit Cost calculations for Air Force, Navy, and other requirements.

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Exhibit P-21, Production Schedule: FY 2018 Air Force																							Date: May 2017										
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													BALANCE
OCO#	MFR#	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015													Calendar Year 2016													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
AIM-120 Missile All Up Round (AUR)																																	
Prior Years Deliveries: 354																																	
	1	2014	AF		261	0	261			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	261		
	1	2014	FMS (‡)		300	0	300			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	32	-	-	30	-	-	-	238		
	1	2014	NAVY (‡)		7	0	7			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7		
	1	2014	Total		568	0	568			-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	-	-	30	-	-	-	506		
	1	2015	AF		223	0	223						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	223		
	1	2015	FMS (‡)		334	0	334						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	334		
	1	2015	Total		557	0	557						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	557		
	1	2016	AF		281	0	281																	A -	-	-	-	-	-	-	281		
	1	2016	FMS (‡)		212	0	212																	A -	-	-	-	-	-	-	212		
	1	2016	NAVY (‡)		117	0	117																	A -	-	-	-	-	-	-	117		
	1	2016	Total		610	0	610																	-	-	-	-	-	-	-	610		
	1	2017	AF		256	0	256																								256		
	1	2017	FMS (‡)		244	0	244																								244		
	1	2017	NAVY (‡)		163	0	163																								163		
	1	2017	Total		663	0	663																								663		
	1	2018	AF		205	0	205																								205		
	1	2018	FMS (‡)		245	0	245																								245		
	1	2018	NAVY (‡)		120	0	120																								120		
	1	2018	Total		570	0	570																								570		
								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: FY 2018 Air Force																							Date: May 2017															
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													BALANCE					
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT				Calendar Year 2017													Calendar Year 2018															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP								
AIM-120 Missile All Up Round (AUR)																																						
Prior Years Deliveries: 354																																						
	1	2014	AF		261	0	261	65	-	-	65	-	-	65	-	-	66															0						
	1	2014	FMS (‡)		300	62	238	80	-	-	80	-	-	78	-	-	-															0						
	1	2014	NAVY (‡)		7	0	7	-	-	-	-	-	-	7	-	-	-															0						
	1	2014	Total		568	62	506	145	-	-	145	-	-	150	-	-	66	-	-	-	-	-	-	-	-	-	-	-	-	-	0							
	1	2015	AF		223	0	223	-	-	-	-	-	-	55	-	-	56	-	-	56															0			
	1	2015	FMS (‡)		334	0	334	-	-	-	-	-	-	84	-	-	84	-	-	83	-	-	83															0
	1	2015	Total		557	0	557	-	-	-	-	-	-	139	-	-	140	-	-	139	-	-	139	-	-	-	-	-	-	-	0							
	1	2016	AF		281	0	281	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	-	-	70	-	-	-	141								
	1	2016	FMS (‡)		212	0	212	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-	52	-	-	-	108								
	1	2016	NAVY (‡)		117	0	117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-	-	-	77								
	1	2016	Total		610	0	610	-	-	-	-	-	-	-	-	-	-	-	-	-	-	122	-	-	162	-	-	-	326									
	1	2017	AF		256	0	256														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	256			
	1	2017	FMS (‡)		244	0	244														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	244			
	1	2017	NAVY (‡)		163	0	163														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	163			
	1	2017	Total		663	0	663														-	-	-	-	-	-	-	-	-	-	-	-	-	-	663			
	1	2018	AF		205	0	205																								A -	-	-	-	205			
	1	2018	FMS (‡)		245	0	245																								A -	-	-	-	245			
	1	2018	NAVY (‡)		120	0	120																								A -	-	-	-	120			
	1	2018	Total		570	0	570																								-	-	-	-	570			
								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: FY 2018 Air Force																				Date: May 2017															
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													BALANCE					
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019																Calendar Year 2020												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP				
AIM-120 Missile All Up Round (AUR)																																			
Prior Years Deliveries: 354																																			
	1	2014	AF		261	261	0																										0		
	1	2014	FMS (‡)		300	300	0																										0		
	1	2014	NAVY (‡)		7	7	0																										0		
	1	2014	Total		568	568	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	1	2015	AF		223	223	0																										0		
	1	2015	FMS (‡)		334	334	0																										0		
	1	2015	Total		557	557	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	1	2016	AF		281	140	141	70	-	-	-	71																				0			
	1	2016	FMS (‡)		212	104	108	61	-	-	-	47																				0			
	1	2016	NAVY (‡)		117	40	77	40	-	-	-	37																				0			
	1	2016	Total		610	284	326	171	-	-	-	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
	1	2017	AF		256	0	256	-	-	-	-	-	-	-	-	-	-	-	64	-	-	64	-	-	64	-	-	64			0				
	1	2017	FMS (‡)		244	0	244	-	-	-	-	-	-	-	-	-	-	-	61	-	-	61	-	-	61	-	-	61			0				
	1	2017	NAVY (‡)		163	0	163	-	-	-	-	-	-	-	-	-	-	-	41	-	-	41	-	-	41	-	-	40			0				
	1	2017	Total		663	0	663	-	-	-	-	-	-	-	-	-	-	-	166	-	-	166	-	-	166	-	-	165	-		0				
	1	2018	AF		205	0	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	-	154					
	1	2018	FMS (‡)		245	0	245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61	-	184					
	1	2018	NAVY (‡)		120	0	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	-	90					
	1	2018	Total		570	0	570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	142	-	428					
								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: FY 2018 Air Force																				Date: May 2017															
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														BALANCE				
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021														Calendar Year 2022														
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
AIM-120 Missile All Up Round (AUR)																																			
Prior Years Deliveries: 354																																			
	1	2014	AF		261	261	0																									0			
	1	2014	FMS (+)		300	300	0																									0			
	1	2014	NAVY (+)		7	7	0																									0			
	1	2014	Total		568	568	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
	1	2015	AF		223	223	0																									0			
	1	2015	FMS (+)		334	334	0																									0			
	1	2015	Total		557	557	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
	1	2016	AF		281	281	0																									0			
	1	2016	FMS (+)		212	212	0																									0			
	1	2016	NAVY (+)		117	117	0																									0			
	1	2016	Total		610	610	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
	1	2017	AF		256	256	0																									0			
	1	2017	FMS (+)		244	244	0																									0			
	1	2017	NAVY (+)		163	163	0																									0			
	1	2017	Total		663	663	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
	1	2018	AF		205	51	154	-	51	-	-	51	-	-	52																0				
	1	2018	FMS (+)		245	61	184	-	61	-	-	61	-	-	62																0				
	1	2018	NAVY (+)		120	30	90	-	30	-	-	30	-	-	30																0				
	1	2018	Total		570	142	428	-	142	-	-	142	-	-	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0					
								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: FY 2018 Air Force									Date: May 2017			
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 2018	1-8-5 For 2018	MAX For 2018	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	960	0	10	25	35	0	0	0	0

(‡) 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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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical							<b>P-1 Line Item Number / Title:</b> PRDTA2 / Predator Hellfire Missile					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0305219F				
<b>Line Item MDAP/MAIS Code:</b> N/A												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	6,256	1,536	399	3,230	3,629	574	457	883	863	-	14,198
Gross/Weapon System Cost <i>(\$ in Millions)</i>	570.643	697.718	179.080	34.867	294.480	329.347	50.011	39.776	76.870	75.116	-	2,018.561
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	570.643	697.718	179.080	34.867	294.480	329.347	50.011	39.776	76.870	75.116	-	2,018.561
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	<b>570.643</b>	<b>697.718</b>	<b>179.080</b>	<b>34.867</b>	<b>294.480</b>	<b>329.347</b>	<b>50.011</b>	<b>39.776</b>	<b>76.870</b>	<b>75.116</b>	<b>-</b>	<b>2,018.561</b>
<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>	-	0.099	0.103	0.075	0.081	0.080	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	0.112	0.117	0.087	0.091	0.091	0.087	0.087	0.087	0.087	-	0.142

**Description:**  
FY2017 funding totals include \$145.125M appropriated for Overseas Contingency Operations.  
FY2018 funding totals include \$294.480M 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.

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force								<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical						<b>P-1 Line Item Number / Title:</b> PRDTA2 / Predator Hellfire Missile				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0305219F				
<b>Line Item MDAP/MAIS Code:</b> N/A										
Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	Predator Hellfire Missile	P-5a, P-21	A		- / 570.643	6,256 / 697.718	1,536 / 179.080	399 / 34.867	3,230 / 294.480	3,629 / 329.347
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 570.643</b>	<b>6,256 / 697.718</b>	<b>1,536 / 179.080</b>	<b>399 / 34.867</b>	<b>3,230 / 294.480</b>	<b>3,629 / 329.347</b>
<small>*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.</small>										
<small>Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.</small>										

**Justification:**  
 FY18 Missile procures 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.



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Exhibit P-5, Cost Analysis: FY 2018 Air Force													Date: May 2017								
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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
Procurement Quantity ( <i>Units in Each</i> )				-			6,256			1,536			399			3,230			3,629		
Gross/Weapon System Cost ( <i>\$ in Millions</i> )				570.643			697.718			179.080			34.867			294.480			329.347		
Less PY Advance Procurement ( <i>\$ in Millions</i> )				-			-			-			-			-			-		
Net Procurement (P-1) ( <i>\$ in Millions</i> )				570.643			697.718			179.080			34.867			294.480			329.347		
Plus CY Advance Procurement ( <i>\$ in Millions</i> )				-			-			-			-			-			-		
Total Obligation Authority ( <i>\$ in Millions</i> )				570.643			697.718			179.080			34.867			294.480			329.347		
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																					
Initial Spares ( <i>\$ in Millions</i> )				-			0.000			-			-			-			-		
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )				-			0.112			0.117			0.087			0.091			0.091		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 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 <sup>(†)</sup>	0.103	4,918	507.244	0.099	6,256	620.035	0.103	1,536	158.447	0.075	399	29.940	0.081	3,230	260.587	0.080	3,629	290.527			
Subtotal: Recurring Cost	-	-	507.244	-	-	620.035	-	-	158.447	-	-	29.940	-	-	260.587	-	-	290.527			
Subtotal: Flyaway - Flyaway End Item Cost	-	-	507.244	-	-	620.035	-	-	158.447	-	-	29.940	-	-	260.587	-	-	290.527			
Hardware - Hardware End Item Cost																					
Recurring Cost																					
Test Equipment	-	-	1.000	-	-	1.050	-	-	1.050	-	-	1.050	-	-	1.500	-	-	2.550			
Subtotal: Recurring Cost	-	-	1.000	-	-	1.050	-	-	1.050	-	-	1.050	-	-	1.500	-	-	2.550			
Subtotal: Hardware - Hardware End Item Cost	-	-	1.000	-	-	1.050	-	-	1.050	-	-	1.050	-	-	1.500	-	-	2.550			
Support - Support End Item Cost																					
Program Management Administration	-	-	34.037	-	-	41.800	-	-	10.682	-	-	2.111	-	-	17.669	-	-	19.780			
Production Engineering Support	-	-	28.362	-	-	34.833	-	-	8.901	-	-	1.766	-	-	14.724	-	-	16.490			
Subtotal: Support - Support End Item Cost	-	-	62.399	-	-	76.633	-	-	19.583	-	-	3.877	-	-	32.393	-	-	36.270			
Gross/Weapon System Cost	-	-	570.643	0.112	6,256	697.718	0.117	1,536	179.080	0.087	399	34.867	0.091	3,230	294.480	0.091	3,629	329.347			
(†) indicates the presence of a P-5a																					

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<b>Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force</b>								<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 02 / 2				<b>P-1 Line Item Number / Title:</b> PRDTA2 / Predator Hellfire Missile				<b>Item Number / Title [DODIC]:</b> - / 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 <sup>(†)</sup>		2015	HELLFIRE Sys Limited Liability / Orlando FL / Troy, AL	MIPR	Redstone Arsenal, AL	Sep 2015	Sep 2017	4,918	0.127	Y		Jan 2013
AGM-114 - All-up-Rounds <sup>(†)</sup>		2016	HELLFIRE Sys Limited Liability / Orlando FL / Troy, AL	MIPR	Redstone Arsenal, AL	Feb 2017	Mar 2019	6,256	0.099	Y		
AGM-114 - All-up-Rounds <sup>(†)</sup>		2017	HELLFIRE Sys Limited Liability / Orlando FL / Troy, AL	MIPR	Redstone Arsenal, AL	Sep 2017	Oct 2019	1,536	0.103	Y		
AGM-114 - All-up-Rounds <sup>(†)</sup>		2018	HELLFIRE Sys Limited Liability / Orlando FL / Troy, AL	MIPR	Redstone Arsenal, AL	Sep 2018	Oct 2020	399	0.075	Y		
AGM-114 - All-up-Rounds <sup>(†)</sup>	✓	2018	HELLFIRE Sys Limited Liability / Orlando FL / Troy, AL	MIPR	Redstone Arsenal, AL	Sep 2018	Oct 2020	3,230	0.081	Y		

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

FY15 represents remaining undelivered quantities.

UNCLASSIFIED

Exhibit P-21, Production Schedule: FY 2018 Air Force																				Date: May 2017															
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2										P-1 Line Item Number / Title: PRDTA2 / Predator Hellfire Missile										Item Number / Title [DODIC]: - / Predator Hellfire Missile															
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2015										Fiscal Year 2016														B A L A N C E				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015										Calendar Year 2016																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
AGM-114 - All-up-Rounds																																			
	1	2015	AF	4,918	0	4,918											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,918
	1	2016	AF	6,256	0	6,256																												6,256	
	1	2016	FMS (‡)	1,332	0	1,332																												1,332	
	1	2016	ARMY (‡)	383	0	383																												383	
	1	2016	<b>Total</b>	<b>7,971</b>	<b>0</b>	<b>7,971</b>																												<b>7,971</b>	
	1	2017	AF	1,536	0	1,536																												1,536	
	1	2017	ARMY (‡)	4,210	0	4,210																												4,210	
	1	2017	FMS (‡)	1,000	0	1,000																												1,000	
	1	2017	<b>Total</b>	<b>6,746</b>	<b>0</b>	<b>6,746</b>																												<b>6,746</b>	
	2	2018	AF	399	0	399																												399	
✓	2	2018	AF	3,230	0	3,230																												3,230	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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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LI PRDTA2 - Predator Hellfire Missile  
Air Force

**UNCLASSIFIED**  
Page 6 of 9

P-1 Line #6

Volume 1 - 62

UNCLASSIFIED

Exhibit P-21, Production Schedule: FY 2018 Air Force																							Date: May 2017											
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 2019													Fiscal Year 2020													B A L A N C E	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019													Calendar Year 2020														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
AGM-114 - All-up-Rounds																																		
	1	2015	AF	4,918	4,918	0																												0
	1	2016	AF	6,256	0	6,256	-	-	-	-	-	522	522	522	522	521	521	521	521	521	521											0		
	1	2016	FMS <sup>(‡)</sup>	1,332	0	1,332	-	-	-	-	-	111	111	111	111	111	111	111	111	111	111	111											0	
	1	2016	ARMY <sup>(‡)</sup>	383	0	383	-	-	-	-	-	33	33	33	33	33	32	31	31	31	31	31											0	
	1	2016	Total	7,971	0	7,971	-	-	-	-	-	666	666	666	666	665	664	663	663	663	663	663	-	-	-	-	-	-	-	-	0			
	1	2017	AF	1,536	0	1,536	-	-	-	-	-	-	-	-	-	-	-	-	128	128	128	128	128	128	128	128	128	128	128	0				
	1	2017	ARMY <sup>(‡)</sup>	4,210	0	4,210	-	-	-	-	-	-	-	-	-	-	-	-	351	351	351	351	351	351	351	351	351	350	350	0				
	1	2017	FMS <sup>(‡)</sup>	1,000	0	1,000	-	-	-	-	-	-	-	-	-	-	-	-	83	83	83	83	83	83	84	84	84	84	83	83	0			
	1	2017	Total	6,746	0	6,746	-	-	-	-	-	-	-	-	-	-	-	-	562	562	562	562	562	562	563	563	563	563	561	561	0			
	2	2018	AF	399	0	399	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	399			
✓	2	2018	AF	3,230	0	3,230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,230			
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: FY 2018 Air Force																			Date: May 2017															
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2							P-1 Line Item Number / Title: PRDTA2 / Predator Hellfire Missile												Item Number / Title [DODIC]: - / Predator Hellfire Missile															
Cost Elements <i>(Units in Each)</i>							Fiscal Year 2021												Fiscal Year 2022												BALANCE			
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022															
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
AGM-114 - All-up-Rounds																																		
	1	2015	AF	4,918	4,918	0																											0	
	1	2016	AF	6,256	6,256	0																											0	
	1	2016	FMS (+)	1,332	1,332	0																											0	
	1	2016	ARMY (+)	383	383	0																											0	
	1	2016	<b>Total</b>	<b>7,971</b>	<b>7,971</b>	<b>0</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>			
	1	2017	AF	1,536	1,536	0																											0	
	1	2017	ARMY (+)	4,210	4,210	0																											0	
	1	2017	FMS (+)	1,000	1,000	0																											0	
	1	2017	<b>Total</b>	<b>6,746</b>	<b>6,746</b>	<b>0</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>			
	2	2018	AF	399	0	399	34	34	33	33	33	33	33	33	33	33	34																	0
✓	2	2018	AF	3,230	0	3,230	270	269	269	269	269	269	269	269	269	269	270																	0
							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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<b>Exhibit P-21, Production Schedule:</b> FY 2018 Air Force								<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 02 / 2				<b>P-1 Line Item Number / Title:</b> PRDTA2 / Predator Hellfire Missile				<b>Item Number / Title [DODIC]:</b> - / Predator Hellfire Missile			

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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	HELLFIRE Sys Limited Liability / Orlando FL - Troy, AL				0	0	0	0	0	0	0	0
2	HELLFIRE Sys Limited Liability / Orlando FL - Troy, AL	1,200	3,600	8,500	0	0	0	0	0	12	25	37

**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 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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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical	<b>P-1 Line Item Number / Title:</b> SDB000 / Small Diameter Bomb
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207327F
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**Line Item MDAP/MAIS Code:** 439

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	12,993	3,494	4,507	5,039	2,273	7,312	300	740	2,160	1,968	5,666	39,140
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	774.003	135.117	260.161	266.030	90.920	356.950	72.506	143.935	336.512	310.853	893.676	3,283.713
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	774.003	135.117	260.161	266.030	90.920	356.950	72.506	143.935	336.512	310.853	893.676	3,283.713
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>774.003</b>	<b>135.117</b>	<b>260.161</b>	<b>266.030</b>	<b>90.920</b>	<b>356.950</b>	<b>72.506</b>	<b>143.935</b>	<b>336.512</b>	<b>310.853</b>	<b>893.676</b>	<b>3,283.713</b>
<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> )	0.060	0.033	0.050	0.049	0.040	0.046	0.124	0.165	0.142	0.150	0.147	0.078
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	0.060	0.039	0.058	0.053	0.040	0.049	0.242	0.195	0.156	0.158	0.158	0.084

**Description:**

FY2016 funding totals include \$2.52M appropriated for Overseas Contingency Operations for SDB I.

FY2017 funding totals include \$167.8M 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 3 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 36 Guided Test Vehicles (GTV) and Live Fire (LF) test missions have been successfully executed to date. There are no significant software-related issues with the program at this time. A 28-shot Government Confidence Test program began in FY2016. Required Assets Available (RAA) for the F-15E is to be completed by FY2019. 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, weapon containers, trainers, reliability captive/test vehicles, tactical to guided test vehicles conversion for WSEP, 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.

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical		<b>P-1 Line Item Number / Title:</b> SDB000 / Small Diameter Bomb
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> 0207327F
<b>Line Item MDAP/MAIS Code:</b> 439		
<p>Objective aircraft include the F-22A, F-16, F-35A, B-1, A-10, B-52, and MQ-9. SDB I completed IOT&amp;E in Jun 2006 and commenced Full Rate Production (FRP) in Dec 2006. Based on an estimated per weapon price of \$40K, FY2016 funds will procure a minimum of 1,727 (Base - 1,664; OCO - 63). FY17 OCO funds will procure a minimum of 4,195. SDB I weapons and weapon containers are procured together as a system. Individual containers can be procured separately as requirements dictate. SDB I procurement supports current combat operations and replenishment of SDB I weapons used in these operations.</p> <p>Funds may be used to resolve production DMS/MS/Obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement and qualification activities to preserve future production capabilities and capacities.</p> <p>Note: ID Code A is applicable to SDB I only.</p> <p>Funding for this exhibit contained in PE 0207327F.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force								<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical						<b>P-1 Line Item Number / Title:</b> SDB000 / Small Diameter Bomb				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A			<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> 0207327F				
<b>Line Item MDAP/MAIS Code:</b> 439										
Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-5	Small Diameter Bomb	P-5a, P-21	A		12,993 / 774.003	3,494 / 135.117	4,507 / 260.161	5,039 / 266.030	2,273 / 90.920	7,312 / 356.950
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>12,993 / 774.003</b>	<b>3,494 / 135.117</b>	<b>4,507 / 260.161</b>	<b>5,039 / 266.030</b>	<b>2,273 / 90.920</b>	<b>7,312 / 356.950</b>
*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 FY2018 budget request includes funding for SDB I weapons. This funding will procure 6,852 weapons needed to replenish SDB I inventory levels.

2. The FY2018 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. FY2018 funding supports the Lot 4 option which includes a contract option range between 440 and 660 SDB II weapons. The EMD contract contains options for Production Lots 1-5.

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

FY17 totals include amounts enacted in P.L. 114-254.

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Exhibit P-5, Cost Analysis: FY 2018 Air Force													Date: May 2017					
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 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total				
Procurement Quantity <i>(Units in Each)</i>				12,993		3,494		4,507		5,039		2,273		7,312				
Gross/Weapon System Cost <i>(\$ in Millions)</i>				774.003		135.117		260.161		266.030		90.920		356.950				
Less PY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Net Procurement (P-1) <i>(\$ in Millions)</i>				774.003		135.117		260.161		266.030		90.920		356.950				
Plus CY Advance Procurement <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Total Obligation Authority <i>(\$ in Millions)</i>				774.003		135.117		260.161		266.030		90.920		356.950				
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																		
Initial Spares <i>(\$ in Millions)</i>				-		-		-		-		-		-				
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>				0.060		0.039		0.058		0.053		0.040		0.049				
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Flyaway - Flyaway End Item Cost																		
Recurring Cost																		
SDB Increment II All Up Round Weapon <sup>(†)</sup>	0.237	144	34.077	0.180	250	44.902	0.180	312	56.266	0.132	460	60.789	-	-	-	0.132	460	60.789
Weapon Containers	-	-	0.462	-	-	1.141	-	-	1.274	-	-	1.008	-	-	-	-	-	1.008
Engineering Change Orders	-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
SDB Increment I <sup>(†)</sup>	0.059	12,599	738.900	0.021	3,244	69.100	0.040	4,195	167.800	0.040	4,579	183.160	0.040	2,273	90.920	0.040	6,852	274.080
Subtotal: Recurring Cost	-	-	773.439	-	-	115.143	-	-	225.340	-	-	244.957	-	-	90.920	-	-	335.877
Subtotal: Flyaway - Flyaway End Item Cost	-	-	773.439	-	-	115.143	-	-	225.340	-	-	244.957	-	-	90.920	-	-	335.877
Support - Support End Item Cost																		
Training Equipment	-	-	0.564	-	-	1.350	-	-	0.722	-	-	0.262	-	-	0.000	-	-	0.262
Operational Flight Program Updates & Test	-	-	-	-	-	2.515	-	-	15.634	-	-	2.020	-	-	-	-	-	2.020
Logistics Support	-	-	-	-	-	0.036	-	-	0.207	-	-	0.134	-	-	-	-	-	0.134
Production Testing	-	-	-	-	-	11.373	-	-	16.225	-	-	16.909	-	-	-	-	-	16.909
PMA Contractor Services	-	-	-	-	-	4.024	-	-	1.038	-	-	0.779	-	-	-	-	-	0.779
PMA Other Government Costs	-	-	0.000	-	-	0.676	-	-	0.995	-	-	0.969	-	-	-	-	-	0.969
Subtotal: Support - Support End Item Cost	-	-	0.564	-	-	19.974	-	-	34.821	-	-	21.073	-	-	0.000	-	-	21.073
Gross/Weapon System Cost	0.060	12,993	774.003	0.039	3,494	135.117	0.058	4,507	260.161	0.053	5,039	266.030	0.040	2,273	90.920	0.049	7,312	356.950

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<b>Exhibit P-5, Cost Analysis:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 02 / 2	<b>P-1 Line Item Number / Title:</b> SDB000 / Small Diameter Bomb	<b>Item Number / Title [DODIC]:</b> - / Small Diameter Bomb
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A		<b>MDAP/MAIS Code:</b>
<b>Remarks:</b> SDB I FY2017 OCO funding replenishes SDB I weapons.  (t) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: FY 2018 Air Force									Date: May 2017			
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 <sup>(†)</sup>		2015	Raytheon / Tucson AZ	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Jun 2015	Jun 2017	144	0.273	Y		Oct 2009
SDB Increment II All Up Round Weapon <sup>(†)</sup>		2016	Raytheon / Tucson AZ	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Sep 2016	Nov 2017	250	0.180	Y		Oct 2009
SDB Increment II All Up Round Weapon <sup>(†)</sup>		2017	Raytheon / Tucson AZ	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Jan 2017	Sep 2018	312	0.180	Y		Oct 2009
SDB Increment II All Up Round Weapon <sup>(†)</sup>		2018	Raytheon / Tucson AZ	SS / FPEPA	AFLCMC/PK Eglin AFB, FL	Jan 2018	Sep 2019	460	0.132	Y		Oct 2009
SDB Increment I <sup>(†)</sup>		2015	Boeing / St Louis MO	SS / FFP	AFLCMC/PK Eglin AFB, FL	Aug 2015	May 2017	299	0.036	Y		Jan 2015
SDB Increment I <sup>(†)</sup>		2016	Boeing / St Louis MO	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Jun 2017	Sep 2017	3,244	0.021	Y		Jan 2016
SDB Increment I <sup>(†)</sup>		2017	Boeing / St Louis MO	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Aug 2017	Sep 2018	4,195	0.040	Y		Jan 2017
SDB Increment I <sup>(†)</sup>		2018	Boeing / St Louis MO	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Aug 2018	Sep 2019	4,579	0.040	Y		Jan 2018
SDB Increment I <sup>(†)</sup>	✓	2018	Boeing / St Louis MO	SS / FPIF	AFLCMC/PK Eglin AFB, FL	Aug 2018	Sep 2019	2,273	0.040	Y		Jan 2018

<sup>(†)</sup> indicates the presence of a P-21

**Remarks:**

- SDB II Lots 1-5 are options on the current EMD contract with Raytheon Missile System, Tucson, AZ, which were competitively awarded in August 2010. SDB II specifications for Lot 1-5 are defined in the EMD contract.
- SDB II Lots 1-3 (FY2015-FY2017) are Fixed Price Incentive Firm Target options.
- SDB II Lots 4-5 (FY2018-FY2019) are Fixed Price Not-To-Exceed pricing with an Economic Price Adjustment clause for labor and materials. These lots will be negotiated to firm fixed price prior to the end of the Lot 3 period of performance based on the certified cost or pricing data proposals.
- SDB II increased FY20 and beyond unit prices are driven by 1) Global Positioning System M-Code/enhanced anti-jam insertion (Section 913 of the Ike Skelton National Defense Authorization Act for FY2011, Pub. Law 111-383, as amended), and 2) Cryptographic Modernization of the TacNet 1.1 Weapon Data Link mandated by the National Security Agency.
- ID Code A is applicable only to SDB I.
- SDB I Prior Years procurement is 12,300.

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Exhibit P-21, Production Schedule: FY 2018 Air Force																				Date: May 2017														
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 C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 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				
SDB Increment II All Up Round Weapon																																		
	1	2015	AF		144	0	144											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144
	1	2016	AF		250	0	250																									A -	250	
	1	2017	AF		312	0	312																										312	
	1	2018	AF		460	0	460																										460	
	1	2018	NAVY <sup>(*)</sup>		90	0	90																										90	
	1	2018	Total		550	0	550																										550	
SDB Increment I																																		
Prior Years Deliveries: 12300																																		
	2	2015	AF		299	0	299											A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	299
	2	2016	AF		3,244	0	3,244																										3,244	
	2	2017	AF		4,195	0	4,195																										4,195	
	2	2018	AF		4,579	0	4,579																										4,579	
✓	2	2018	AF		2,273	0	2,273																										2,273	
								O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	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: FY 2018 Air Force																							Date: May 2017														
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													BALANCE					
OCO	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018																		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP							
SDB Increment II All Up Round Weapon																																					
	1	2015	AF		144	0	144	-	-	-	-	-	-	-	-	40	50	54														0					
	1	2016	AF		250	0	250	-	-	-	-	-	-	-	-	-	-	-	-	18	18	19	21	22	22	21	22	22	21	22	22						
	1	2017	AF		312	0	312				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	287						
	1	2018	AF		460	0	460														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	460	
	1	2018	NAVY <sup>(*)</sup>		90	0	90														A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90	
	1	2018	Total		550	0	550														-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	550
SDB Increment I																																					
Prior Years Deliveries: 12300																																					
	2	2015	AF		299	0	299	-	-	-	-	-	-	-	150	149																0					
	2	2016	AF		3,244	0	3,244								A -	-	-	270	270	270	270	270	270	270	270	270	270	270	270	274		0					
	2	2017	AF		4,195	0	4,195								A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	350	3,845				
	2	2018	AF		4,579	0	4,579																			A -	-		4,579								
✓	2	2018	AF		2,273	0	2,273																			A -	-		2,273								
								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: FY 2018 Air Force																				Date: May 2017												
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													B A L A N C E		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019										Calendar Year 2020															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P	
SDB Increment II All Up Round Weapon																																
	1	2015	AF	144	144	0																										0
	1	2016	AF	250	228	22	22																								0	
	1	2017	AF	312	25	287	25	25	25	25	25	25	25	29	29	29																0
	1	2018	AF	460	0	460	-	-	-	-	-	-	-	-	-	-	39	39	39	39	39	39	39	39	39	39	39	31		0		
	1	2018	NAVY <sup>(‡)</sup>	90	0	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90	-	-		0		
	1	2018	Total	550	0	550	-	-	-	-	-	-	-	-	-	-	39	39	39	39	39	39	39	39	39	39	129	39	31	-	0	
SDB Increment I																																
Prior Years Deliveries: 12300																																
	2	2015	AF	299	299	0																									0	
	2	2016	AF	3,244	3,244	0																									0	
	2	2017	AF	4,195	350	3,845	350	350	350	350	350	350	350	350	350	345																0
	2	2018	AF	4,579	0	4,579	-	-	-	-	-	-	-	-	-	-	382	382	382	382	382	382	382	382	382	382	382	382	377		0	
✓	2	2018	AF	2,273	0	2,273	-	-	-	-	-	-	-	-	-	-	189	189	189	189	189	189	189	189	189	189	189	189	194		0	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		

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<b>Exhibit P-21, Production Schedule:</b> FY 2018 Air Force								<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 02 / 2					<b>P-1 Line Item Number / Title:</b> SDB000 / Small Diameter Bomb				<b>Item Number / Title [DODIC]:</b> - / Small Diameter Bomb		

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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	0	0	0	0	0	4	20	24
2	Boeing - St Louis MO	1,000	5,000	8,000	0	0	0	0	0	11	13	24

**Remarks:**

SDB II - Yearly production maybe 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 maybe below MSR.

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

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

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 5: Industrial Facilities							<b>P-1 Line Item Number / Title:</b> 42 / Industr'l Preparedns/Pol Prevention					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.397	0.977	0.926	0.000	0.926	0.794	0.807	0.822	0.839	-	5.562
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.397	0.977	0.926	0.000	0.926	0.794	0.807	0.822	0.839	-	5.562
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.397</b>	<b>0.977</b>	<b>0.926</b>	<b>0.000</b>	<b>0.926</b>	<b>0.794</b>	<b>0.807</b>	<b>0.822</b>	<b>0.839</b>	-	<b>5.562</b>
<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> )	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b></p> <p>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.</p> <p>The Missile Procurement part of Industrial Preparedness supports the management and upkeep of Air Force Plant 44, Tucson, AZ. This includes capital type rehabilitation (MPC 3000) projects for repair and expansion, major capital rehabilitation, construction, demolition, equipment movement and energy conservation 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 AMRAAM, 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).</p> <p>Funding for this exhibit is contained in PE 78011F</p> <p><b>Justification:</b></p> <p>FY2018 funds environmental compliance (MPC 7000) and capital type rehabilitation (MPC 3000) programs, at Air Force Plant 44, a unique defense asset which supports the production of several missile systems for the Air Force and the Navy. In FY2018 there are also funds for space-related industrial base assessments (MPC 6000).</p>												

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV							<b>P-1 Line Item Number / Title:</b> M30FLH / ICBM FUZE MOD					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B				<b>Program Elements for Code B Items:</b> 0604933F				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> 498												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	0.000	17.095	6.334	0.000	6.334	9.841	12.094	34.145	88.677	643.463	811.649
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	0.000	17.095	6.334	0.000	6.334	9.841	12.094	34.145	88.677	643.463	811.649
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>0.000</b>	<b>17.095</b>	<b>6.334</b>	<b>0.000</b>	<b>6.334</b>	<b>9.841</b>	<b>12.094</b>	<b>34.145</b>	<b>88.677</b>	<b>643.463</b>	<b>811.649</b>
<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> )	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b>  Funding for this mod in FY15 (\$4.7M) and FY16 (\$13.7M) was in PE0101213F, M30MLG, MM III Modifications.</p> <p>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.</p> <p>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. In addition, the Joint Requirements Oversight Council (JROC) signed the program's JROC Memorandum validating the operational requirement for the program on 6 December 2016. Currently available Mk21/W87 fuze quantities do not meet United States Strategic Command (USSTRATCOM) requirements and the legacy fuze is three times beyond its original ten year design life. A replacement Mk21/W87 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.</p> <p>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.</p>												
<p><b>Justification:</b>  Where applicable, justification for individual modifications is provided in the P-3A exhibits.</p>												

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV							<b>P-1 Line Item Number / Title:</b> M30MLG / MM III Modifications					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B				<b>Program Elements for Code B Items:</b> 0101213F, 0604851F, 0604933F				<b>Other Related Program Elements:</b> 0101213F, 0303131F				
<b>Line Item MDAP/MAIS Code:</b> 253												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	97.612	43.122	68.692	80.109	0.000	80.109	115.557	71.151	55.098	82.561	0.000	613.902
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	97.612	43.122	68.692	80.109	0.000	80.109	115.557	71.151	55.098	82.561	0.000	613.902
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>97.612</b>	<b>43.122</b>	<b>68.692</b>	<b>80.109</b>	<b>0.000</b>	<b>80.109</b>	<b>115.557</b>	<b>71.151</b>	<b>55.098</b>	<b>82.561</b>	<b>0.000</b>	<b>613.902</b>
<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> )	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b></p> <p>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 FY18 is to support the operational capability of the Minuteman ICBM through 2030. Programs will include analysis of Diminishing Manufacturing Sources and Material Shortages (DMSMS) risks and procurement activities related to DMSMS.</p> <p>The modifications being performed on LGM-30 include: Minuteman Minimum Essential Emergency Communications Network (MEECN) modification, LGM-30G ICBM Fuze Modernization, 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) and LGM-30G T-9 Launch Facility Trainer Conversion. LCCBU and RVA II production are new start programs in FY18.</p> <p>Funding for modifications other than MEECN is contained in PE 0101213F (PE 0604851F prior to FY15); MEECN is contained in PE 0303131F.</p> <p>Starting in FY17, ICBM Modernization has been transferred to PE010213F, M30FLH, ICBM Modernization to provide transparency.</p>												

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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force							Date: May 2017				
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											
Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	
P-40a***	5747 / LGM-30G Maintenance Trainer Modification (Other)				- / 8.085	- / -	- / -	- / -	- / -	- / -	
P-40a***	5910 / MINUTEMAN MEECN MODIFICATION (Capability Improvement)				- / 84.827	- / 13.100	- / 9.621	- / 9.519	- / -	- / 9.519	
P-40a***	5928 / T-9 Launch Facility Trainer Conversion (T-9) (Other)				- / -	- / 9.716	- / 0.791	- / 6.024	- / -	- / 6.024	
P-40a***	5934 / LGM-30G Flight Test Telemetry and Termination System (FT3) (Other)				- / -	- / 5.069	- / 21.867	- / -	- / -	- / -	
P-40a***	5942 / LGM-30G Launch Control Center Break-In-Kit (LCCB) (Other)				- / -	- / -	- / 1.024	- / 0.872	- / -	- / 0.872	
P-40a***	5943 / ICBM Fuze Modernization (Service Life Extension)				- / 4.700	- / 13.700	- / -	- / -	- / -	- / -	
P-40a***	99999X / Low Cost Modifications (Other)				- / -	- / 1.537	- / 3.750	- / 2.000	- / -	- / 2.000	
P-3a	5916 / ICBM Cryptography Upgrade Increment II (Capability Improvement)				- / 0.000	- / 0.000	- / 31.639	- / 29.559	- / 0.000	- / 29.559	
P-3a	5921 / MM LCC Block Upgrades (Service Life Extension)				- / 0.000	- / 0.000	- / 0.000	- / 16.004	- / 0.000	- / 16.004	
P-3a	5932 / LGM-30G Remote Visual Assessment Phase II (RVA II) (Other)				- / -	- / 0.000	- / 0.000	- / 16.131	- / 0.000	- / 16.131	
P-40	Total Gross/Weapon System Cost				- / 97.612	- / 43.122	- / 68.692	- / 80.109	- / 0.000	- / 80.109	
Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	
P-40a***	5747 / LGM-30G Maintenance Trainer Modification (Other)				- / -	- / -	- / -	- / -	- / -	- / -	
P-40a***	5910 / MINUTEMAN MEECN MODIFICATION (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -	
P-40a***	5928 / T-9 Launch Facility Trainer Conversion (T-9) (Other)				- / -	- / -	- / -	- / -	- / -	- / -	
P-40a***	5934 / LGM-30G Flight Test Telemetry and Termination System (FT3) (Other)				- / -	- / -	- / -	- / -	- / -	- / -	
P-40a***	5942 / LGM-30G Launch Control Center Break-In-Kit (LCCB) (Other)				- / -	- / -	- / -	- / -	- / -	- / -	
P-40a***	5943 / ICBM Fuze Modernization (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -	
P-40a***	99999X / Low Cost Modifications (Other)				- / -	- / -	- / -	- / -	- / -	- / -	
P-3a	5916 / ICBM Cryptography Upgrade Increment II (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -	
P-3a	5921 / MM LCC Block Upgrades (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -	
P-3a	5932 / LGM-30G Remote Visual Assessment Phase II (RVA II) (Other)				- / -	- / -	- / -	- / -	- / -	- / -	
P-40	Total Gross/Weapon System Cost				- / 115.557	- / 71.151	- / 55.098	- / 82.561	- / 0.000	- / 613.902	
*** 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.											



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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force		Date: May 2017
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		

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

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1					<b>P-1 Line Item Number / Title:</b> M30MLG / MM III Modifications					<b>Modification Number / Title:</b> 5916 / ICBM Cryptography Upgrade Increment II		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	0.000	31.639	29.559	0.000	29.559	-	-	-	-	-	-
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	0.000	31.639	29.559	0.000	29.559	-	-	-	-	-	-
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>0.000</b>	<b>31.639</b>	<b>29.559</b>	<b>0.000</b>	<b>29.559</b>	-	-	-	-	-	-
<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> )	-	-	-	1.238	-	1.238	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b></p> <p>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.</p> <p>A4 Drawer replacements will be performed by contractor installation team.</p> <p>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.</p> <p>FY18 include support equipment required for operational units and the depot repair facility to perform fault isolation, component replacement, and functional testing.</p> <p>Milestone/Development Status</p> <p>ICU II Engineering &amp; 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. Follow-on testing for the integrated circuit solution (Application Specific Integrated Circuit - ASIC) will continue through Jul 18.</p> <p>Key development activities include:</p> <ul style="list-style-type: none"> <li>ICU II PDR (Mar 13)</li> <li>ICU II CDR (Mar 14)</li> <li>ICU II Milestone C (Aug 18)</li> <li>ICU II Production and Deployment Phase (4Q2018-4Q2022)</li> <li>ICU II RAA (IOC) (Jun 21)</li> <li>ICU II RAA (FOC) (Nov 22)</li> </ul>												

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force										<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1				<b>P-1 Line Item Number / Title:</b> M30MLG / MM III Modifications						<b>Modification Number / Title:</b> 5916 / ICBM Cryptography Upgrade Increment II			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :								<b>MDAP/MAIS Code:</b>					
<b>Models of Systems Affected:</b> LGM-30G				<b>Modification Type:</b> Capability Improvement				<b>Related RDT&amp;E PEs:</b> 0101213F					
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>	
	Qty (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)	
<b>RDT&amp;E PE #</b>													
0101213F	0 / 48.484	- / 30.386	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Procurement</b>													
<b>Modification Item 1 of 1:</b> A4 Drawer Replacement													
B Kits													
Recurring													
A4 Drawer Replacement:EQUIPMENT Group B (Active)	- / -	- / -	- / -	49 / 17.362	- / -	49 / 17.362	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: Recurring</b>	- / -	- / -	- / -	- / 17.362	- / -	- / 17.362	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: A4 Drawer Replacement</b>	- / -	- / -	- / -	- / 17.362	- / -	- / 17.362	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: Procurement, All Modification Items</b>	- / -	- / -	- / -	- / 17.362	- / -	- / 17.362	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Support (All Modification Items)</b>													
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 0.068	- / -	- / 0.068	- / -	- / -	- / -	- / -	- / -	- / -	
SUPPORT-EQUIP	- / -	- / -	- / -	- / 10.280	- / -	- / 10.280	- / -	- / -	- / -	- / -	- / -	- / -	
Change Orders	- / -	- / -	- / 31.639	- / 1.327	- / -	- / 1.327	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.522	- / -	- / 0.522	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: Support</b>	- / -	- / -	- / 31.639	- / 12.197	- / -	- / 12.197	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Installation</b>													
<b>Subtotal: Installation</b>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>0.000</b>	<b>31.639</b>	<b>29.559</b>	<b>0.000</b>	<b>29.559</b>	-	-	-	-	-	-	

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force																							<b>Date:</b> May 2017										
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1											<b>P-1 Line Item Number / Title:</b> M30MLG / MM III Modifications											<b>Modification Number / Title:</b> 5916 / ICBM Cryptography Upgrade Increment II											
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :																<b>MDAP/MAIS Code:</b>																	
<b>Modification Item 1 of 1:</b> A4 Drawer Replacement																																	
<b>Manufacturer Information</b>																																	
Manufacturer Name: Boeing/Aeroflex																	Manufacturer Location: Huntington Beach, CA																
Administrative Leadtime <i>(in Months)</i> : 6																	Production Leadtime <i>(in Months)</i> : 12																
<b>Dates</b>		<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>							
Contract Dates										Aug 2018																							
Delivery Dates										Aug 2019																							
<b>Installation Information</b>																																	
<b>Method of Implementation:</b> Contract Field Team																																	
<b>Installation Schedule</b>																																	
	<b>PYS</b>	<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>							
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>TC</b>	<b>Tot</b>		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	58	-	-	-	316	-	-	78	-	-	0	457	
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	58	-	-	-	316	-	-	78	-	-	0	457	

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1					<b>P-1 Line Item Number / Title:</b> M30MLG / MM III Modifications					<b>Modification Number / Title:</b> 5921 / MM LCC Block Upgrades		
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b>					
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	0.000	0.000	0.000	16.004	0.000	16.004	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	0.000	0.000	0.000	16.004	0.000	16.004	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>16.004</b>	<b>0.000</b>	<b>16.004</b>	-	-	-	-	-	-
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b>  This program, P-3A Mod 5921, MM LCC Block Upgrades, is a new start.  The LCCBU program will address several elements within the LCC that are experiencing supportability issues and impacting voice communications in the MM missile fields. The LCCBU program is a single modification effort that replaces five components. Components will be procured as a single modification kit and installed as a single kit at each LCC. It will consist of five primary replacement efforts:</p> <ol style="list-style-type: none"> <li>1) Journal Memory Loader (JML) - replaces the JML with a modern data storage solution which will increase the available memory required to support annual software changes and mitigate Floppy Disk obsolescence concerns.</li> <li>2) Floppy Disk Drive (FDD) - replaces the legacy FDDs which are no longer manufactured with a modern, supportable hardware solution.</li> <li>3) Voice Communications Control Panel (VCCP) - replaces the current deficient equipment to provide the voice communications quality required to perform the ICBM mission and may require additional components to resolve voice communication degradations.</li> <li>4) Weapon System Control Console (WSCC) Printer - replaces the current printer that is no longer produced and is unsupportable due to aging hardware and a lack of qualified vendors for replacement/repair components.</li> <li>5) Oxygen Regeneration Unit (ORU) - replaces the current unsupportable system to provide the crew with breathable air during periods when the LCC is locked down.</li> </ol> <p>All LCCBU efforts will support the 45 operational LCCs and additional support equipment/test/maintenance locations.</p> <p>Milestone/Development Status</p> <p>LCC Block Upgrades Milestone B : 3QFY2017  LCC Block Upgrades EMD : 3Q2017  LCC Block Upgrades Milestone C : 3QFY2018  LCC Block Upgrades Production and Deployment : 3QFY2018  LCC Block Upgrades RAA = 2QFY2019</p> <p>RDT&amp;E efforts are included in PE 0101213F. Development for applicable components began in FY15 and transition to production in FY18.7</p>												

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force										<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1					<b>P-1 Line Item Number / Title:</b> M30MLG / MM III Modifications					<b>Modification Number / Title:</b> 5921 / MM LCC Block Upgrades			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :								<b>MDAP/MAIS Code:</b>					
<b>Models of Systems Affected:</b> LGM-30G				<b>Modification Type:</b> Service Life Extension				<b>Related RDT&amp;E PEs:</b> 0101213F					
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<b>RDT&amp;E PE #</b>													
0101213F	- / 0.565	- / 8.198	- / 22.880	- / 22.294	- / -	- / 22.294	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Procurement</b>													
<b>Modification Item 1 of 1:</b> Modification Kit													
B Kits													
Recurring													
Modification Kit:EQUIPMENT Group B (Active)	- / -	- / -	- / -	31 / 14.798	- / -	31 / 14.798	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: Recurring</b>	- / -	- / -	- / -	- / 14.798	- / -	- / 14.798	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: Modification Kit</b>	- / -	- / -	- / -	- / 14.798	- / -	- / 14.798	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: Procurement, All Modification Items</b>	- / -	- / -	- / -	- / 14.798	- / -	- / 14.798	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Support (All Modification Items)</b>													
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.967	- / -	- / 0.967	- / -	- / -	- / -	- / -	- / -	- / -	
Data	- / -	- / -	- / -	- / 0.239	- / -	- / 0.239	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: Support</b>	- / -	- / -	- / -	- / 1.206	- / -	- / 1.206	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Installation</b>													
<b>Modification Item 1 of 1:</b> Modification Kit	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: Installation</b>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>16.004</b>	<b>0.000</b>	<b>16.004</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force										<b>Date:</b> May 2017																					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1										<b>P-1 Line Item Number / Title:</b> M30MLG / MM III Modifications										<b>Modification Number / Title:</b> 5921 / MM LCC Block Upgrades											
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :															<b>MDAP/MAIS Code:</b>																
<b>Modification Item 1 of 1:</b> Modification Kit																															
<b>Manufacturer Information</b>																															
Manufacturer Name: TBD 2															Manufacturer Location: TBD																
Administrative Leadtime <i>(in Months)</i> : 1															Production Leadtime <i>(in Months)</i> : 5																
<b>Dates</b>		<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>					
Contract Dates										Apr 2018																					
Delivery Dates										Sep 2018																					
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Contract Field Team																															
<b>Installation Cost</b>		<b>Prior Years</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>FY 2018 Base</b>		<b>FY 2018 OCO</b>		<b>FY 2018 Total</b>		<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021</b>		<b>FY 2022</b>		<b>To Complete</b>		<b>Total</b>							
		Qty (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 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		0 / 0.000		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	31	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	0	61
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	30	-	-	-	-	-	-	-	-	-	-	-	-	0	61

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force						<b>Date:</b> May 2017					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1				<b>P-1 Line Item Number / Title:</b> M30MLG / MM III Modifications				<b>Modification Number / Title:</b> 5932 / LGM-30G Remote Visual Assessment Phase II (RVA II)			

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :						<b>MDAP/MAIS Code:</b>					
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	0.000	0.000	16.131	0.000	16.131	-	-	-	-	-	-
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	0.000	0.000	16.131	0.000	16.131	-	-	-	-	-	-
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	0.000	0.000	16.131	0.000	16.131	-	-	-	-	-	-
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	1.348	1.348	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

This program, P-3A Mod 5932, LGM-30G Remote Visual Assessment Phase II (RVA II), is a new start.

The LGM-30G RVA II program will provide the following capabilities: situational awareness for both ground and airborne security forces; increasing cybersecurity posture; adding video archival capability; providing additional backup power; and complementing the existing security intrusion detection systems located on each LF - Improved Minuteman Physical Security System (IMPSS) alarm.

The RVA system consists of real-time video surveillance, display, and data transmission elements. During an intrusion, this system works in conjunction with the existing nuclear-certified intrusion detection system to report LF assessment information to monitoring locations.

**Milestone/Development Status**

EMD will award in FY17 and expected to complete in FY18 at which time production will commence.



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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force										<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1				<b>P-1 Line Item Number / Title:</b> M30MLG / MM III Modifications						<b>Modification Number / Title:</b> 5932 / LGM-30G Remote Visual Assessment Phase II (RVA II)			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :								<b>MDAP/MAIS Code:</b>					
<b>Models of Systems Affected:</b> LGM-30G				<b>Modification Type:</b> Other				<b>Related RDT&amp;E PEs:</b> 0101213F					
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<b>RDT&amp;E PE #</b>													
0101213F	- / -	- / 0.770	- / 7.480	- / 4.342	- / -	- / 4.342	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Procurement</b>													
<b>Modification Item 1 of 1:</b> RVA II													
B Kits													
Recurring													
RVA II:EQUIPMENT Group B (Active)	- / -	- / -	- / -	1 / 14.914	- / -	1 / 14.914	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: Recurring</b>	- / -	- / -	- / -	- / 14.914	- / -	- / 14.914	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: RVA II</b>	- / -	- / -	- / -	- / 14.914	- / -	- / 14.914	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: Procurement, All Modification Items</b>	- / -	- / -	- / -	- / 14.914	- / -	- / 14.914	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Support (All Modification Items)</b>													
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.422	- / -	- / 0.422	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: Support</b>	- / -	- / -	- / -	- / 0.422	- / -	- / 0.422	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Installation</b>													
<b>Modification Item 1 of 1:</b> RVA II	- / -	- / -	- / -	1 / 0.795	- / -	1 / 0.795	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Subtotal: Installation</b>	- / -	- / -	- / -	1 / 0.795	- / -	1 / 0.795	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	-	0.000	0.000	16.131	0.000	16.131	-	-	-	-	-	-	

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force										<b>Date:</b> May 2017																					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1										<b>P-1 Line Item Number / Title:</b> M30MLG / MM III Modifications										<b>Modification Number / Title:</b> 5932 / LGM-30G Remote Visual Assessment Phase II (RVA II)											
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :															<b>MDAP/MAIS Code:</b>																
<b>Modification Item 1 of 1:</b> RVA II																															
<b>Manufacturer Information</b>																															
Manufacturer Name: TBD															Manufacturer Location: TBD																
Administrative Leadtime (in Months): 2															Production Leadtime (in Months): 6																
<b>Dates</b>		<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>					
Contract Dates										Feb 2018																					
Delivery Dates										Aug 2018																					
<b>Installation Information</b>																															
<b>Method of Implementation:</b> Contract Field Team																															
<b>Installation Cost</b>		<b>Prior Years</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>FY 2018 Base</b>		<b>FY 2018 OCO</b>		<b>FY 2018 Total</b>		<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021</b>		<b>FY 2022</b>		<b>To Complete</b>		<b>Total</b>							
		Qty (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 2016		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2018		- / -		- / -		- / -		1 / 0.795		- / -		1 / 0.795		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
Total		- / -		- / -		- / -		1 / 0.795		- / -		1 / 0.795		- / -		- / -		- / -		- / -		- / -		- / -		- / -					
<b>Installation Schedule</b>																															
	<b>PYS</b>	<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>				<b>TC</b>	<b>Tot</b>
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>		
In	0	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	0	3
Out	0	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	0	3

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV							<b>P-1 Line Item Number / Title:</b> M65DAG / AGM-65D Maverick					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	15.359	26.902	0.289	10.000	10.289	0.291	0.296	0.301	0.308	-	53.746
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	15.359	26.902	0.289	10.000	10.289	0.291	0.296	0.301	0.308	-	53.746
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>15.359</b>	<b>26.902</b>	<b>0.289</b>	<b>10.000</b>	<b>10.289</b>	<b>0.291</b>	<b>0.296</b>	<b>0.301</b>	<b>0.308</b>	-	<b>53.746</b>
<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> )	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b></p> <p>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 &amp; Raytheon Missile Systems(Tucson, AZ).. The older Maverick GCS units are upgraded/modified to Laser Maverick seekers.</p> <p>FY2018 funding totals include \$10M requested for Overseas Contingency Operations to fund the modification of 91 legacy AGM-65 Maverick missiles to Laser Maverick missiles.</p> <p>Note: Procurement quantities can change based on negotiated options/pricing bands and available funding, in accordance with Title 10, U.S Code Section 2308 BUY-TO-BUDGET ACQUISITION.</p> <p><b>Justification:</b></p> <p>Where applicable, justification for individual modifications is provided in the P-3A exhibits.</p>												

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV							<b>P-1 Line Item Number / Title:</b> M88AAG / AGM-88A Harm					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> 0207136F				
<b>Line Item MDAP/MAIS Code:</b> N/A												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	71.978	0.197	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	72.175
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	71.978	0.197	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-	72.175
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>71.978</b>	<b>0.197</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>72.175</b>
<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> )	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b></p> <p>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.</p> <p>No Budget Year FY18 funding requested.</p> <p>Funding for this exhibit contained in PE 0207162F.</p>												
<p><b>Justification:</b></p> <p>Where applicable, justification for individual modifications is provided in the P-3A exhibits.</p>												

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV							<b>P-1 Line Item Number / Title:</b> MALCBG / Air Launch Cruise Missile (ALCM)					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B				<b>Program Elements for Code B Items:</b> 0101122F, 0101125F				<b>Other Related Program Elements:</b> 0101122F				
<b>Line Item MDAP/MAIS Code:</b> N/A												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	118.783	25.015	21.762	36.425	0.000	36.425	25.171	24.804	24.981	25.482	3.965	306.388
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	118.783	25.015	21.762	36.425	0.000	36.425	25.171	24.804	24.981	25.482	3.965	306.388
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>118.783</b>	<b>25.015</b>	<b>21.762</b>	<b>36.425</b>	<b>0.000</b>	<b>36.425</b>	<b>25.171</b>	<b>24.804</b>	<b>24.981</b>	<b>25.482</b>	<b>3.965</b>	<b>306.388</b>
<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> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Description:</b> The AGM-86B, Air Launched Cruise Missile (ALCM), is a subsonic, air-to-surface strategic nuclear missile, operational since 1982. Armed with a W80 warhead, it is designed to evade air and ground-based defenses in order to strike targets at any location within any enemy's territory. ALCM was designed for both B-52H internal and external carriage. Funding for this exhibit is contained in PE 0101122F.  Change Summary: FY18 increased \$15.044M for Service Life Extension Program (SLEP) 2 and CALCM/ALCM Test Instrumentation Kit (CATIK).												

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force								<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV						<b>P-1 Line Item Number / Title:</b> MALCBG / Air Launch Cruise Missile (ALCM)				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B			<b>Program Elements for Code B Items:</b> 0101122F, 0101125F			<b>Other Related Program Elements:</b> 0101122F				
<b>Line Item MDAP/MAIS Code:</b> N/A										
<b>Exhibits Schedule</b>					<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>MDAP/MAIS Code</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
P-40a***	_0468 / AGM-86B Low Cost Mods (Other)				- / 1.414	- / 0.130	- / 0.100	- / 0.100	- / -	- / 0.100
P-40a***	860001 / AGM-86B Service Life Extension Program 1 (Service Life Extension)				- / 8.237	- / 0.015	- / 0.015	- / 0.007	- / -	- / 0.007
P-40a***	860004 / AGM-86B Service Life Extension Program 3 (Service Life Extension)				- / -	- / 4.243	- / 5.528	- / 5.267	- / -	- / 5.267
P-3a	860002 / AGM-86B Service Life Extension Program 2 (Service Life Extension)				- / 20.119	- / 10.072	- / 11.080	- / 18.522	- / 0.000	- / 18.522
P-3a	860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit (Capability Improvement)				- / 89.013	- / 10.555	- / 5.039	- / 12.529	- / 0.000	- / 12.529
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 118.783</b>	<b>- / 25.015</b>	<b>- / 21.762</b>	<b>- / 36.425</b>	<b>- / 0.000</b>	<b>- / 36.425</b>
<b>Exhibits Schedule</b>					<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
<b>Exhibit Type</b>	<b>Title*</b>	<b>Subexhibits</b>	<b>ID CD</b>	<b>MDAP/MAIS Code</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>	<b>Quantity / Total Cost (Each) / (\$ M)</b>
P-40a***	_0468 / AGM-86B Low Cost Mods (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	860001 / AGM-86B Service Life Extension Program 1 (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	860004 / AGM-86B Service Life Extension Program 3 (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	860002 / AGM-86B Service Life Extension Program 2 (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 25.171</b>	<b>- / 24.804</b>	<b>- / 24.981</b>	<b>- / 25.482</b>	<b>- / 3.965</b>	<b>- / 306.388</b>
*** 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.										
<b>Justification:</b> Where applicable, justification for individual modifications is provided in the P-3A exhibits.										



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Exhibit P-3a, Individual Modification: FY 2018 Air Force								Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 03 / 1				P-1 Line Item Number / Title: MALCBG / Air Launch Cruise Missile (ALCM)				Modification Number / Title: 860002 / AGM-86B Service Life Extention Program 2				
ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	20.119	10.072	11.080	18.522	0.000	18.522	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	20.119	10.072	11.080	18.522	0.000	18.522	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	20.119	10.072	11.080	18.522	0.000	18.522	-	-	-	-	-	-
(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 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 FY17-FY23 for this modification.

Rotary Switch and Guided Missile Flight Controller (GMFC) procurement and installations will be delayed by at least two years due to change in scope from repair to remanufacture effort. FY18 PB currently reflects the WAD, Rotary Switch and Guided Missile Flight Controller as one kit. Program will be broken out in FY19 to reflect separate component kits. The FY19 budget will also reflect multiple installation schedules. WAD installations begin Sep 17, however this represents only one-third of the kit.

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

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.

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

Quantity SLEP 2 TCTO kit reduction from 583 to 560 ALCMs due to flight / ground test expenditures through 2030.

Mar 2017 BGRC recalled 90 WADs due to quality defect for rework. This is firm fixed price (FFP) contract, no change in contract price. Government has approved BGRC Recovery Plan with deliveries to resume June 2017. Installations delayed until September 2017, thereby extending installation completion into FY2023.

FY18 \$7.177M increase due to Rotary Switch non-recurring engineering effort  
FY19 \$2.355M increase due to Warhead Arming Device, new cost proposal requirement for option year 5.

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1	<b>P-1 Line Item Number / Title:</b> MALCBG / Air Launch Cruise Missile (ALCM)	<b>Modification Number / Title:</b> 860002 / AGM-86B Service Life Extention Program 2
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>
<p>Milestone/Development Status</p> <p>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).</p>		

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force										<b>Date:</b> May 2017			
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1					<b>P-1 Line Item Number / Title:</b> MALCBG / Air Launch Cruise Missile (ALCM)					<b>Modification Number / Title:</b> 860002 / AGM-86B Service Life Extention Program 2			
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :							<b>MDAP/MAIS Code:</b>						
<b>Models of Systems Affected:</b> AGM-86B				<b>Modification Type:</b> Service Life Extension				<b>Related RDT&amp;E PEs:</b> 0101122F					
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
<b>Procurement</b>													
<i>Modification Item 1 of 2:</i> SLEP 2 Depot													
B Kits													
Recurring													
SLEP 2 Depot:EQUIPMENT Group B (Active)													
	48 / 4.872	24 / 2.571	24 / 0.801	24 / 1.809	- / -	24 / 1.809	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 4.872	- / 2.571	- / 0.801	- / 1.809	- / -	- / 1.809	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: SLEP 2 Depot</i>	- / 4.872	- / 2.571	- / 0.801	- / 1.809	- / -	- / 1.809	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Modification Item 2 of 2:</i> SLEP 2 Organic													
B Kits													
Recurring													
SLEP 2 Organic:EQUIPMENT Group B (Active)													
	123 / 12.222	70 / 7.497	70 / 2.336	70 / 5.278	- / -	70 / 5.278	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / 12.222	- / 7.497	- / 2.336	- / 5.278	- / -	- / 5.278	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: SLEP 2 Organic</i>	- / 12.222	- / 7.497	- / 2.336	- / 5.278	- / -	- / 5.278	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / 17.094	- / 10.068	- / 3.137	- / 7.087	- / -	- / 7.087	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Support (All Modification Items)</b>													
GROUP B: TOTAL NONRECURRING													
	- / 2.774	- / -	- / 7.907	- / 11.410	- / -	- / 11.410	- / -	- / -	- / -	- / -	- / -	- / -	
OTHER GOVT													
	- / -	- / -	- / 0.000	- / 0.014	- / -	- / 0.014	- / -	- / -	- / -	- / -	- / -	- / -	
PMA - Other Gov't Costs													
	- / 0.007	- / 0.004	- / 0.034	- / 0.005	- / -	- / 0.005	- / -	- / -	- / -	- / -	- / -	- / -	
A&AS													
	- / 0.244	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / 3.025	- / 0.004	- / 7.941	- / 11.429	- / -	- / 11.429	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Installation</b>													
<i>Modification Item 1 of 2:</i> SLEP 2 Depot													
	- / -	0 / 0.000	6 / 0.002	24 / 0.006	- / -	24 / 0.006	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	- / -	- / 0.000	6 / 0.002	24 / 0.006	- / -	24 / 0.006	- / -	- / -	- / -	- / -	- / -	- / -	
<b>Total</b>													
<b>Total Cost (Procurement + Support + Installation)</b>	<b>20.119</b>	<b>10.072</b>	<b>11.080</b>	<b>18.522</b>	<b>0.000</b>	<b>18.522</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force											<b>Date:</b> May 2017																					
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1											<b>P-1 Line Item Number / Title:</b> MALCBG / Air Launch Cruise Missile (ALCM)											<b>Modification Number / Title:</b> 860002 / AGM-86B Service Life Extention Program 2										
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :																<b>MDAP/MAIS Code:</b>																
<b>Modification Item 1 of 2:</b> SLEP 2 Depot																																
<b>Manufacturer Information</b>																																
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> ): 12																		
<b>Dates</b>		<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>						
Contract Dates		Jun 2016				Jun 2017				Jun 2018																						
Delivery Dates		Jun 2017				Jun 2018				Jun 2019																						
<b>Installation Information</b>																																
<b>Method of Implementation:</b> Depot																																
<b>Installation Cost</b>		<b>Prior Years</b>		<b>FY 2016</b>		<b>FY 2017</b>		<b>FY 2018 Base</b>		<b>FY 2018 OCO</b>		<b>FY 2018 Total</b>		<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021</b>		<b>FY 2022</b>		<b>To Complete</b>		<b>Total</b>								
		Qty (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 / 0.000		6 / 0.002		24 / 0.006		- / -		24 / 0.006		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2016		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2017		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2018		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2019		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2020		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2021		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
FY 2022		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
To Complete		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
Total		- / -		0 / 0.000		6 / 0.002		24 / 0.006		- / -		24 / 0.006		- / -		- / -		- / -		- / -		- / -		- / -		- / -						
<b>Installation Schedule</b>																																
	<b>PYS</b>	<b>FY 2016</b>				<b>FY 2017</b>				<b>FY 2018</b>				<b>FY 2019</b>				<b>FY 2020</b>				<b>FY 2021</b>				<b>FY 2022</b>				<b>TC</b>	<b>Tot</b>	
		<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>			
In	0	-	-	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	24	150	
Out	0	-	-	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	24	150	

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force					<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1			<b>P-1 Line Item Number / Title:</b> MALCBG / Air Launch Cruise Missile (ALCM)			<b>Modification Number / Title:</b> 860002 / AGM-86B Service Life Extention Program 2	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :					<b>MDAP/MAIS Code:</b>		
<b>Modification Item 2 of 2:</b> SLEP 2 Organic							
<b>Manufacturer Information</b>							
Manufacturer Name: BGRC				Manufacturer Location: Heath, OH			
Administrative Leadtime ( <i>in Months</i> ): 4				Production Leadtime ( <i>in Months</i> ): 12			
<b>Dates</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
Contract Dates	Sep 2016	Sep 2017	Sep 2018				
Delivery Dates	Sep 2017	Sep 2018	Sep 2019				
<b>Installation Information</b>							
<b>Method of Implementation (Organic):</b> Org/Intermediate					<b>Installation Quantity:</b> 410		

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force					<b>Date:</b> May 2017	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1			<b>P-1 Line Item Number / Title:</b> MALCBG / Air Launch Cruise Missile (ALCM)		<b>Modification Number / Title:</b> 860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>		
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	89.013	10.555	5.039	12.529	0.000	12.529
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	89.013	10.555	5.039	12.529	0.000	12.529
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority</b> <i>(\$ in Millions)</i>	<b>89.013</b>	<b>10.555</b>	<b>5.039</b>	<b>12.529</b>	<b>0.000</b>	<b>12.529</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-
<p><b>Description:</b></p> <p>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. The remaining requirement to procure is 63 CATIK units.</p> <p>Battery sets are to be procured on the same contract as the CATIK. 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, and are limited to a seven year shelf life. CATIK batteries are represented in the "SUPPORT-EQUIP" line.</p> <p>The current activity will also procure modified 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 Sustainment 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 in FY17 is concurrent with the follow-on purchase of CATIK units. The 30 units called out specifically are noted for the retrofit of shelved CATIKs. Remaining purchase will be transparent due to their procurement running concurrent to each CATIK unit. 5 DUs will be purchased to use in conjunction with the new EUs.</p> <p>CATIK funds will continue to support AFGSC and USSTRATCOM requirements to keep the ALCM viable through 2030.</p> <p>Funds may be used to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues.</p> <p>FY18 \$7.867M increase for procurement of CATIKs. FY19 \$2.355M shifted to fund SLEP 2 requirements.</p> <p>Milestone/Development Status</p> <p>CATIK Enterprise effort consists of 63 CATIK units, Encryption units, Battery Sets, and 5 Decryption units to support flight tests through FY28.</p>						

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force					<b>Date:</b> May 2017	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1		<b>P-1 Line Item Number / Title:</b> MALCBG / Air Launch Cruise Missile (ALCM)			<b>Modification Number / Title:</b> 860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :				<b>MDAP/MAIS Code:</b>		
<b>Models of Systems Affected:</b> AGM-86B		<b>Modification Type:</b> Capability Improvement		<b>Related RDT&amp;E PEs:</b> 0101122F		
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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)
<b>Procurement</b>						
<i>Modification Item 1 of 1:</i> CATIKS						
B Kits						
Recurring						
CATIKS:EQUIPMENT Group B (Active)	91 / 63.977	9 / 10.095	3 / 3.290	12 / 12.522	- / -	12 / 12.522
<i>Subtotal: Recurring</i>	- / 63.977	- / 10.095	- / 3.290	- / 12.522	- / -	- / 12.522
<i>Subtotal: CATIKS</i>	- / 63.977	- / 10.095	- / 3.290	- / 12.522	- / -	- / 12.522
<i>Subtotal: Procurement, All Modification Items</i>	- / 63.977	- / 10.095	- / 3.290	- / 12.522	- / -	- / 12.522
<b>Support (All Modification Items)</b>						
GROUP B: TOTAL NONRECURRING	- / 1.767	- / -	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / -	0 / 0.007	0 / 0.007	0 / 0.007	- / -	0 / 0.007
Change Orders	- / 2.786	- / -	0 / 0.000	- / -	- / -	- / -
Data	- / 1.691	- / -	0 / 0.000	- / -	- / -	- / -
OTHER GOVT	0 / 1.761	- / -	- / -	- / -	- / -	- / -
SUPPORT-EQUIP <sup>(1)</sup>	91 / 17.031	4 / 0.453	43 / 1.742	- / -	- / -	- / -
<i>Subtotal: Support</i>	91 / 25.036	4 / 0.460	43 / 1.749	0 / 0.007	- / -	0 / 0.007
<b>Installation</b>						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>						
<b>Total Cost (Procurement + Support + Installation)</b>	<b>89.013</b>	<b>10.555</b>	<b>5.039</b>	<b>12.529</b>	<b>0.000</b>	<b>12.529</b>

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<b>Exhibit P-3a, Individual Modification:</b> FY 2018 Air Force		<b>Date:</b> May 2017	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 03 / 1		<b>P-1 Line Item Number / Title:</b> MALCBG / Air Launch Cruise Missile (ALCM)	
		<b>Modification Number / Title:</b> 860009 / AGM-86B CALCM/ALCM Test Instrumentation Kit	
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :		<b>MDAP/MAIS Code:</b>	
<b>Modification Item 1 of 1:</b> CATIKS			
<b>Manufacturer Information</b>			
Manufacturer Name: Boeing Company		Manufacturer Location: Oklahoma City, OK	
Administrative Leadtime ( <i>in Months</i> ): 6		Production Leadtime ( <i>in Months</i> ): 24	
<b>Dates</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>
Contract Dates	Jul 2017	Jul 2017	Jun 2018
Delivery Dates	Jul 2019		Jun 2020
<b>Installation Information</b>			
<b>Method of Implementation (Organic):</b> Org/Intermediate		<b>Installation Quantity:</b> 168	
<b>Footnotes:</b> <sup>(1)</sup> For procurement of Battery Sets; FY17 also includes Encryption Units (30) and Decryption Units (5)			



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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 03: Modification of Inservice Missiles / BSA 1: Class IV							<b>P-1 Line Item Number / Title:</b> SDB000 / Small Diameter Bomb					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready): B				<b>Program Elements for Code B Items:</b> 0207327F				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	15.934	0.000	15.349	14.086	0.000	14.086	0.000	0.000	0.000	0.000	-	45.369
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	15.934	0.000	15.349	14.086	0.000	14.086	0.000	0.000	0.000	0.000	-	45.369
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>15.934</b>	<b>0.000</b>	<b>15.349</b>	<b>14.086</b>	<b>0.000</b>	<b>14.086</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>-</b>	<b>45.369</b>
<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> )	-	-	-	-	-	-	-	-	-	-	-	-
<p><b>Description:</b>            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 FY2018 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 200% and provide risk reduction for future SDB II integration. The original procurement of BRU-61/As was 2,000. This effort will procure 245 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.</p> <p>Funds may be used to resolve production DMS/MS/Obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement and qualification activities to preserve future production capabilities and capacities.</p> <p>Funding for this exhibit contained in PE 0207327F.</p>												
<p><b>Justification:</b>            Where applicable, justification for individual modifications is provided in the P-3A exhibits.</p>												

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force										<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 04: Spares and Repair Parts / BSA 10: Missile Spares and Repair Parts							<b>P-1 Line Item Number / Title:</b> 999 / Replen Spares/Repair Parts					
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):				<b>Program Elements for Code B Items:</b> N/A				<b>Other Related Program Elements:</b> N/A				
<b>Line Item MDAP/MAIS Code:</b> N/A												
<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>To Complete</b>	<b>Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	0.000	48.027	81.607	101.153	0.000	101.153	98.358	91.030	90.245	92.977	-	603.397
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	0.000	48.027	81.607	101.153	0.000	101.153	98.358	91.030	90.245	92.977	-	603.397
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>0.000</b>	<b>48.027</b>	<b>81.607</b>	<b>101.153</b>	<b>0.000</b>	<b>101.153</b>	<b>98.358</b>	<b>91.030</b>	<b>90.245</b>	<b>92.977</b>	<b>-</b>	<b>603.397</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**  
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. Procurements will include spares with long production lead items.

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

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

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force		<b>Date:</b> May 2017
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 04: Spares and Repair Parts / BSA 10: Missile Spares and Repair Parts		<b>P-1 Line Item Number / Title:</b> 999 / Replen Spares/Repair Parts
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
<b>Line Item MDAP/MAIS Code:</b> N/A		
<p>This program has associated Research Development Test and Evaluation funding in PEs 11120F, 11213F, 27161F, 11122F, and 27163F.</p>		

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force								<b>Date:</b> May 2017		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 04: Spares and Repair Parts / BSA 10: Missile Spares and Repair Parts						<b>P-1 Line Item Number / Title:</b> 999 / Replen Spares/Repair Parts				
<b>ID Code</b> (A=Service Ready, B=Not Service Ready):				<b>Program Elements for Code B Items:</b> N/A			<b>Other Related Program Elements:</b> N/A			
<b>Line Item MDAP/MAIS Code:</b> N/A										
Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-18	Replen Spares/Repair Parts			185 185 439	- / -	- / 48.027	- / 81.607	- / 101.153	- / 0.000	- / 101.153
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>- / 0.000</b>	<b>- / 48.027</b>	<b>- / 81.607</b>	<b>- / 101.153</b>	<b>- / 0.000</b>	<b>- / 101.153</b>
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.										
<b>Justification:</b> Small Diameter Bomb, AGM-88A Tactical AGM Missile and LGM-30 Minuteman III Mods have large replenishment spares requirements for FY2018. MM III Modifications and AIM-9 Sidewinder have large initial spares requirements in FY2018.										

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<b>Exhibit P-18, Initial and Replenishment Spare and Repair Parts Justification: FY 2018 Air Force</b>					<b>Date: May 2017</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F / 04 / 10		<b>P-1 Line Item Number / Title:</b> 999 / Replen Spares/Repair Parts			<b>Title:</b> Replen Spares/Repair Parts	
<b>End Item Line Item Number / Name [MDAP/MAIS]</b>	<b>Prior Years (\$ M)</b>	<b>FY 2016 (\$ M)</b>	<b>FY 2017 (\$ M)</b>	<b>FY 2018 Base (\$ M)</b>	<b>FY 2018 OCO (\$ M)</b>	<b>FY 2018 Total (\$ M)</b>
<b>Initial</b>						
BA 04 - Spares and Repair Parts						
M09BA1 / AIM-9X	-	0.604	2.427	2.241	0.000	2.241
M09HA1 / Air Launch Cruise Missile (ALCM)	-	0.000	0.294	0.304	0.000	0.304
MAMRA0 / AMRAAM [185]	-	1.996	2.072	2.067	0.000	2.067
M09HA1 / JOINT AIR-SURFACE STANDOFF MISSILE	-	0.806	0.367	0.424	0.000	0.424
M30MLG / MM III MODIFICATIONS	-	0.000	6.660	3.136	0.000	3.136
M09BA1 / AIM-9 SIDEWINDER	-	0.000	5.257	3.479	0.000	3.479
<b>Subtotal: Initial</b>	-	<b>3.406</b>	<b>17.077</b>	<b>11.651</b>	<b>0.000</b>	<b>11.651</b>
<b>Replenishment</b>						
BA 04 - Spares and Repair Parts						
MO9BAI / AIM-9X Tactical Air Intercept Missile	-	5.513	5.565	5.681	0.000	5.681
M30MLG / Arms Control Implementation	-	0.692	0.685	0.000	0.000	0.000
M09HA1 / AIM-9 Sidewinder	-	5.242	5.450	5.541	0.000	5.541
MALCBG / AGM-86 Air Launched Cruise Missile (ALCM)	-	0.000	3.232	2.942	0.000	2.942
M30MLG / LGM-30 MINUTEMAN (MM III)	-	23.857	32.912	54.065	0.000	54.065
M88AAG / AGM-88A Tactical AGM Missile (HARM)	-	3.484	3.516	8.799	0.000	8.799
MAMRA0 / AIM-120 Advanced Medium Range Air to Air Missile (AMRAAM) [185]	-	0.810	0.817	0.834	0.000	0.834
M65DAG / AGM-65D Maverick	-	1.492	1.506	1.537	0.000	1.537
PRDTA2 / Predator Hellfire Missile	-	0.294	0.292	0.298	0.000	0.298
SDB000 / Small Diameter Bomb [439]	-	3.237	10.555	9.805	0.000	9.805
<b>Subtotal: Replenishment</b>	-	<b>44.621</b>	<b>64.530</b>	<b>89.502</b>	<b>0.000</b>	<b>89.502</b>
<b>Total Cost (Initial + Replenishment)</b>	-	<b>48.027</b>	<b>81.607</b>	<b>101.153</b>	<b>0.000</b>	<b>101.153</b>

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<b>Exhibit P-40, Budget Line Item Justification:</b> FY 2018 Air Force	<b>Date:</b> May 2017
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3020F: Missile Procurement, Air Force / BA 05: Other Support / BSA 4: Special Programs	<b>P-1 Line Item Number / Title:</b> MSPPRG / Special Update Programs
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<b>ID Code</b> (A=Service Ready, B=Not Service Ready): A	<b>Program Elements for Code B Items:</b> N/A	<b>Other Related Program Elements:</b> N/A
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**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	291.562	46.125	32.917	0.000	32.917	198.831	371.260	336.488	483.838	-	1,761.021
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	-	291.562	46.125	32.917	0.000	32.917	198.831	371.260	336.488	483.838	-	1,761.021
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	-	<b>291.562</b>	<b>46.125</b>	<b>32.917</b>	<b>0.000</b>	<b>32.917</b>	<b>198.831</b>	<b>371.260</b>	<b>336.488</b>	<b>483.838</b>	-	<b>1,761.021</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

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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