

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft	P-1 Line Item Number / Title: F01500 / F-15
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ID Code (A=Service Ready, B=Not Service Ready): B	Program Elements for Code B Items: 0207130F, 0207134F, 0207445F, 0809731F	Other Related Program Elements: 0207130F, 0207134F
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,803.046	145.406	417.193	548.109	0.000	548.109	622.715	761.697	492.161	355.961	367.880	6,514.168
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	2,803.046	145.406	417.193	548.109	0.000	548.109	622.715	761.697	492.161	355.961	367.880	6,514.168
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,803.046	145.406	417.193	548.109	0.000	548.109	622.715	761.697	492.161	355.961	367.880	6,514.168

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

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

Description:

This line item funds modifications to the F-15 aircraft. The F-15C/D is a twin engine (F-15C single seat; F-15D dual seat) supersonic, all-weather, day/night, air-superiority fighter. The F-15E is a twin engine, two seat, supersonic dual-role, day/night, all-weather, deep interdiction fighter with multi-role air-to-air capabilities. The overall goals of the budgeted modifications are to improve operational capability, reliability and maintainability, and flight safety. The specific modifications budgeted and programmed are below.

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

Funding for this exhibit is contained in PEs 0207130F, 0207134F, 0207445F, and 0809731F.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	144.804	414.193	470.005	0.000	470.005	540.503	684.467	406.932	328.601
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.602	3.000	78.104	-	78.104	82.212	77.230	85.229	27.360
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	145.406	417.193	548.109	0.000	548.109	622.715	761.697	492.161	355.961

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Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
F01500 / F-15

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207130F, 0207134F, 0207445F, 0809731F **Other Related Program Elements:** 0207130F, 0207134F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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***	1209 / F-15 C/D Flight Data Recorder (FDR) (Capability Improvement)				- / 24.240	- / 0.265	- / 0.303	- / 0.020	- / -	- / 0.020
P-40a***	1210 / F-15E Flight Data Recorder (FDR) (Capability Improvement)				- / 138.240	- / 1.785	- / 2.421	- / 0.027	- / -	- / 0.027
P-40a***	8353 / F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM (Reliability & Maintainability)				- / 102.724	- / -	- / 1.200	- / 0.600	- / -	- / 0.600
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Service Life Extension)				- / 6.068	- / 0.103	- / 1.119	- / 1.128	- / -	- / 1.128
P-40a***	8794 / F-15C/D Beyond Line Of Sight Communications (Capability Improvement)				- / 54.339	- / -	- / 0.088	- / -	- / -	- / -
P-40a***	8797 / F-15C Passive Attack Sensor System (Capability Improvement)				- / 27.873	- / 0.704	- / -	- / -	- / -	- / -
P-40a***	8798 / 5th to 4th Gen Gateway (Capability Improvement)				- / -	- / -	- / 0.844	- / -	- / -	- / -
P-40a***	8803 / F-15 C/D/MUOS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8804 / F-15 F-15 E/MUOS (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8805 / F-15 C/D SLEP Wings (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8806 / F-15 C/D Cabin Pressure Indicator (Safety)				- / 1.977	- / -	- / 0.076	- / 0.120	- / -	- / 0.120
P-40a***	8807 / F-15 E Cabin Pressure Indicator (Safety)				- / 3.332	- / -	- / 0.126	- / 0.180	- / -	- / 0.180
P-40a***	8808 / F-15 C/D ADS-B (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8809 / F-15E ADS-B (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8811 / F-15E SATCOM UON (Other)				- / 10.300	- / 7.400	- / 0.000	- / 0.000	- / -	- / 0.000
P-40a***	8812 / F-15 E Integrated Aircrew Trainer (Other)				- / -	- / -	- / -	- / 4.963	- / -	- / 4.963
P-40a***	8815 / F-15C Simulator Upgrade (Capability Improvement)				- / -	- / -	- / 15.000	- / 0.000	- / 0.000	- / 0.000
P-40a***	8816 / F-15C/D APG-63(V)3 Common Config (Reliability & Maintainability)				- / -	- / -	- / -	- / 4.326	- / -	- / 4.326
P-40a***	99999U / LOW COST RETROFIT MODS (Service Life Extension)				- / 5.763	- / 0.001	- / 0.001	- / 0.001	- / -	- / 0.001
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 5.759	- / 0.028	- / 0.001	- / 0.001	- / -	- / 0.001
P-3a	1202 / F-15E Radar Modernization Program APG-82(V)1 (Capability Improvement)			A	- / 1,035.191	- / 129.496	- / 229.764	- / 199.627	- / 0.000	- / 199.627
P-3a	1 / Advanced Display Core Processor, ADCP II-E (Reliability & Maintainability)			B	- / 0.000	- / 3.765	- / 50.477	- / 37.340	- / 0.000	- / 37.340
P-3a	1205 / Advanced Display Core Processor, ADCP II-C (Reliability & Maintainability)			B	- / 0.000	- / 1.859	- / 6.475	- / 56.791	- / 0.000	- / 56.791
P-3a	1206 / F-15C Infrared Search and Track (IRST) (Capability Improvement)			B	- / -	- / 0.000	- / 55.133	- / 61.889	- / 0.000	- / 61.889
P-3a	6158 / F-15C/D APG-63(V)3 radar upgrade (Capability Improvement)			B	- / 1,359.205	- / 0.000	- / 16.723	- / 90.524	- / 0.000	- / 90.524
P-3a	8754 / F-15C/D IFF Mode 5 (Reliability & Maintainability)			A	- / -	- / 0.000	- / 0.000	- / 9.540	- / 0.000	- / 9.540
P-3a	8755 / F-15E IFF MODE 5 (Reliability & Maintainability)			B	- / 28.035	- / 0.000	- / 7.976	- / 15.725	- / 0.000	- / 15.725

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Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
F01500 / F-15

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207130F, 0207134F, 0207445F, 0809731F **Other Related Program Elements:** 0207130F, 0207134F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	8799 / F-15C MIDS JTRS (Capability Improvement)		B		- / 0.000	- / 0.000	- / 7.430	- / 21.360	- / 0.000	- / 21.360
P-3a	8800 / F-15E MIDS JTRS (Capability Improvement)		B		- / 0.000	- / 0.000	- / 13.823	- / 19.040	- / 0.000	- / 19.040
P-3a	8801 / F-15 C/D SLEP Longerons (Service Life Extension)		B		- / -	- / 0.000	- / 7.023	- / 5.900	- / 0.000	- / 5.900
P-3a	8810 / F-15E APG-82(V)1 Common Config (Capability Improvement)		B		- / 0.000	- / 0.000	- / 1.190	- / 19.007	- / 0.000	- / 19.007
P-40	Total Gross/Weapon System Cost				- / 2,803.046	- / 145.406	- / 417.193	- / 548.109	- / 0.000	- / 548.109

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	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***	1209 / F-15 C/D Flight Data Recorder (FDR) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 24.828
P-40a***	1210 / F-15E Flight Data Recorder (FDR) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 142.473
P-40a***	8353 / F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 104.524
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Service Life Extension)				- / 1.147	- / 1.167	- / 1.190	- / 1.212	- / -	- / 13.134
P-40a***	8794 / F-15C/D Beyond Line Of Sight Communications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 54.427
P-40a***	8797 / F-15C Passive Attack Sensor System (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 28.577
P-40a***	8798 / 5th to 4th Gen Gateway (Capability Improvement)				- / -	- / -	- / -	- / 14.194	- / -	- / 15.038
P-40a***	8803 / F-15 C/D/MUOS (Capability Improvement)				- / 0.630	- / 8.130	- / 20.450	- / 5.182	- / 40.550	- / 74.942
P-40a***	8804 / F-15 F-15 E/MUOS (Capability Improvement)				- / 0.630	- / 8.050	- / 8.680	- / 30.952	- / 41.850	- / 90.162
P-40a***	8805 / F-15 C/D SLEP Wings (Service Life Extension)				- / 99.094	- / 4.015	- / -	- / -	- / -	- / 103.109
P-40a***	8806 / F-15 C/D Cabin Pressure Indicator (Safety)				- / -	- / -	- / -	- / -	- / -	- / 2.173
P-40a***	8807 / F-15 E Cabin Pressure Indicator (Safety)				- / -	- / -	- / -	- / -	- / -	- / 3.638
P-40a***	8808 / F-15 C/D ADS-B (Capability Improvement)				- / -	- / 4.570	- / 12.374	- / -	- / -	- / 16.944
P-40a***	8809 / F-15E ADS-B (Capability Improvement)				- / -	- / 4.565	- / 12.379	- / 11.507	- / 23.267	- / 51.718
P-40a***	8811 / F-15E SATCOM UON (Other)				- / -	- / -	- / -	- / -	- / -	- / 17.700
P-40a***	8812 / F-15 E Integrated Aircrew Trainer (Other)				- / -	- / -	- / -	- / -	- / -	- / 4.963
P-40a***	8815 / F-15C Simulator Upgrade (Capability Improvement)				- / 0.000	- / -	- / -	- / -	- / -	- / 15.000
P-40a***	8816 / F-15C/D APG-63(V)3 Common Config (Reliability & Maintainability)				- / 4.352	- / 1.526	- / -	- / -	- / -	- / 10.204
P-40a***	99999U / LOW COST RETROFIT MODS (Service Life Extension)				- / 0.001	- / 0.001	- / -	- / -	- / -	- / 5.768
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 0.001	- / 0.001	- / -	- / -	- / -	- / 5.791
P-3a	1202 / F-15E Radar Modernization Program APG-82(V)1 (Capability Improvement)		A		- / 200.425	- / 296.936	- / 92.559	- / 94.244	- / 37.600	- / 2,315.842

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Exhibit P-40, Budget Line Item Justification: PB 2019 Air Force **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 2: Tactical Aircraft

P-1 Line Item Number / Title:
F01500 / F-15

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207130F, 0207134F, 0207445F, 0809731F **Other Related Program Elements:** 0207130F, 0207134F

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-3a	1 / Advanced Display Core Processor, ADCP II-E (Reliability & Maintainability)		B		- / 44.357	- / 70.627	- / 74.483	- / 75.842	- / -	- / 356.891
P-3a	1205 / :Advanced Display Core Processor, ADCP II-C (Reliability & Maintainability)		B		- / 89.600	- / 61.756	- / 72.364	- / 33.797	- / -	- / 322.642
P-3a	1206 / F-15C Infrared Search and Track (IRST) (Capability Improvement)		B		- / 34.533	- / 121.077	- / 35.615	- / 20.918	- / 92.711	- / 421.876
P-3a	6158 / F-15C/D APG-63(V)3 radar upgrade (Capability Improvement)		B		- / 23.681	- / 40.540	- / 42.909	- / 3.769	- / 0.000	- / 1,577.351
P-3a	8754 / F-15C/D IFF Mode 5 (Reliability & Maintainability)		A		- / 28.545	- / 0.548	- / 0.000	- / 0.000	- / -	- / 38.633
P-3a	8755 / F-15E IFF MODE 5 (Reliability & Maintainability)		B		- / 4.470	- / 0.520	- / 0.000	- / 0.000	- / 0.000	- / 56.726
P-3a	8799 / F-15C MIDS JTRS (Capability Improvement)		B		- / 26.280	- / 46.118	- / 41.832	- / 6.648	- / 37.360	- / 187.028
P-3a	8800 / F-15E MIDS JTRS (Capability Improvement)		B		- / 27.844	- / 36.018	- / 40.259	- / 19.962	- / 15.800	- / 172.746
P-3a	8801 / F-15 C/D SLEP Longerons (Service Life Extension)		B		- / 24.500	- / 31.520	- / 32.100	- / 32.678	- / 78.742	- / 212.463
P-3a	8810 / F-15E APG-82(V)1 Common Config (Capability Improvement)		B		- / 12.625	- / 24.012	- / 4.967	- / 5.056	- / -	- / 66.857
P-40	Total Gross/Weapon System Cost				- / 622.715	- / 761.697	- / 492.161	- / 355.961	- / 367.880	- / 6,514.168

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,035.191	129.496	229.764	199.627	0.000	199.627	200.425	296.936	92.559	94.244	37.600	2,315.842
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,035.191	129.496	229.764	199.627	0.000	199.627	200.425	296.936	92.559	94.244	37.600	2,315.842
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,035.191	129.496	229.764	199.627	0.000	199.627	200.425	296.936	92.559	94.244	37.600	2,315.842

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

Initial Spares (<i>\$ in Millions</i>)	-	17.326	12.002	5.100	-	5.100	2.000	-	-	-	-	36.428
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

F-15E Radar Modernization Program (RMP), designated the APG-82(V)1, replaces the legacy radar using existing technology from other DOD platforms. It solves parts obsolescence problems and provides improved reliability and performance (increased synthetic aperture radar (SAR) range and resolution), including air-to-air and air-to-ground modes. Also provides for future growth. Total aircraft requirement: 217. This program funded Research Development Test and Evaluation (RDT&E) in PE 0207134F. Requirements document: F-15E Radar Modernization Program CDD dated 21 March 2005. In Aug 08, AF/ASRD again reviewed the Capabilities Production Document (CPD) requirement and determined it was no longer necessary since the operational requirements in the Capabilities Development Document were still valid and the program had already entered MS C/LRIP.

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign. DMSMS costs are included in Group B NRE; SE/PM costs are include in the Group B recurring; and Depot Costs are included in Support Equipment.

To account for Automatic Transformer Rectifier Unit (ATRU) kits that were not installed on the first 89 APG-82(V)1 RMP aircraft, \$9.460M of funding has moved to MOD number 8810, APG-82(V)1 Common Config.

Milestone/Development Status

Development is complete.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	129.496	229.764	199.627	-	199.627	200.425	296.936	92.559	94.244
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	129.496	229.764	199.627	0.000	199.627	200.425	296.936	92.559	94.244

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Exhibit P-3a, Individual Modification: PB 2019 Air Force										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: F-15E				Modification Type: Capability Improvement				Related RDT&E PEs: 0207134F					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> APG-82(v)1													
A Kits													
Recurring													
APG-82(v)1:INSTALL KITS Group A (Active)	127 / 194.695	13 / 17.657	29 / 42.365	17 / 31.620	- / -	17 / 31.620	16 / 32.736	15 / 35.100	- / -	- / -	- / -	217 / 354.173	
<i>Subtotal: Recurring</i>	- / 194.695	- / 17.657	- / 42.365	- / 31.620	- / -	- / 31.620	- / 32.736	- / 35.100	- / -	- / -	- / -	- / 354.173	
B Kits													
Recurring													
APG-82(v)1:EQUIPMENT Group B (Active)	127 / 577.667	13 / 47.376	29 / 149.268	17 / 88.910	- / -	17 / 88.910	16 / 92.048	15 / 90.570	- / -	- / -	- / -	217 / 1,045.839	
<i>Subtotal: Recurring</i>	- / 577.667	- / 47.376	- / 149.268	- / 88.910	- / -	- / 88.910	- / 92.048	- / 90.570	- / -	- / -	- / -	- / 1,045.839	
<i>Subtotal: APG-82(v)1</i>	- / 772.362	- / 65.033	- / 191.633	- / 120.530	- / -	- / 120.530	- / 124.784	- / 125.670	- / -	- / -	- / -	- / 1,400.012	
<i>Subtotal: Procurement, All Modification Items</i>	- / 772.362	- / 65.033	- / 191.633	- / 120.530	- / -	- / 120.530	- / 124.784	- / 125.670	- / -	- / -	- / -	- / 1,400.012	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 121.034	- / 4.201	- / 6.657	- / 8.600	- / -	- / 8.600	- / 5.100	- / 5.400	- / -	- / -	- / -	- / 150.992	
OTHER GOVT	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 72.500	- / 43.000	- / 48.000	- / -	- / 163.500	
Change Orders	- / 60.598	- / 39.792	- / 6.919	- / 26.927	- / -	- / 26.927	- / 20.221	- / 41.894	- / 3.259	- / 3.644	- / 12.200	- / 215.454	
Data	- / 13.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.295	
Type 1 Training	- / 0.501	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.501	
SUPPORT-EQUIP	- / 8.075	- / 0.000	- / 4.370	- / 1.015	- / -	- / 1.015	- / 1.020	- / 1.035	- / -	- / -	- / -	- / 15.515	
ICS-Labor	- / 25.339	- / 10.340	- / 5.240	- / 21.200	- / -	- / 21.200	- / 23.900	- / 23.000	- / 20.000	- / 15.000	- / 9.000	- / 153.019	
PMA - Other Gov't Costs	- / 10.270	- / 3.500	- / 3.345	- / 3.000	- / -	- / 3.000	- / 3.000	- / 3.000	- / 3.000	- / 3.000	- / 3.000	- / 35.115	
<i>Subtotal: Support</i>	- / 239.112	- / 57.833	- / 26.531	- / 60.742	- / -	- / 60.742	- / 53.241	- / 146.829	- / 69.259	- / 69.644	- / 24.200	- / 747.391	
Installation													
<i>Modification Item 1 of 1:</i> APG-82(v)1	44 / 23.717	17 / 6.630	24 / 11.600	24 / 18.355	- / -	24 / 18.355	24 / 22.400	24 / 24.437	24 / 23.300	24 / 24.600	12 / 13.400	217 / 168.439	
<i>Subtotal: Installation</i>	44 / 23.717	17 / 6.630	24 / 11.600	24 / 18.355	- / -	24 / 18.355	24 / 22.400	24 / 24.437	24 / 23.300	24 / 24.600	12 / 13.400	217 / 168.439	
Total													
Total Cost (Procurement + Support + Installation)	1,035.191	129.496	229.764	199.627	0.000	199.627	200.425	296.936	92.559	94.244	37.600	2,315.842	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1202 / F-15E Radar Modernization Program APG-82(V)1

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Modification Item 1 of 1: APG-82(v)1

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: El Segundo CA/Forest MS
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 18

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021		
Delivery Dates	Sep 2018	Sep 2019	Sep 2020	Sep 2021	Sep 2022		

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	44 / 23.717	17 / 6.630	24 / 11.600	24 / 18.355	- / -	24 / 18.355	18 / 14.900	- / -	- / -	- / -	- / -	127 / 75.202
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	6 / 7.500	7 / 7.127	- / -	- / -	- / -	13 / 14.627
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 17.310	12 / 11.650	- / -	- / -	29 / 28.960
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 11.650	5 / 5.125	- / -	17 / 16.775
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 16.400	- / -	16 / 16.400
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.075	12 / 13.400	15 / 16.475
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	44 / 23.717	17 / 6.630	24 / 11.600	24 / 18.355	- / -	24 / 18.355	24 / 22.400	24 / 24.437	24 / 23.300	24 / 24.600	12 / 13.400	217 / 168.439

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	44	4	5	4	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	12	217
Out	39	5	4	5	4	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	18	217

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1 / Advanced Display Core Processor, ADCP II-E

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	0.000	3.765	50.477	37.340	0.000	37.340	44.357	70.627	74.483	75.842	-	356.891
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	0.000	3.765	50.477	37.340	0.000	37.340	44.357	70.627	74.483	75.842	-	356.891
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	0.000	3.765	50.477	37.340	0.000	37.340	44.357	70.627	74.483	75.842	-	356.891

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

Initial Spares (\$ in Millions)	-	0.500	6.220	6.400	-	6.400	6.600	-	-	-	3.400	23.120
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The F-15E requires a replacement Advanced Display Core Processor (ADCP II) to meet future and projected subsystem demands. The ADCP II program will equip the F-15E with a central processor with sufficient memory, processing throughput, and Input/Output bandwidth to meet the Operational Flight Program growth requirements of Suite 8 and beyond, and to support other major platform modernization upgrades such as EPAWSS. The increased capability of ADCP II will also enable the F-15E to fully exploit the APG-82(V)1 radar capabilities, to include increased target tracks, mode simultaneity, and increased track data. The ADCP II is required to meet all APG-82(V)1 key system attributes.

Requirements: AF Form 1067 approved July 2012
DT&E 4Q2016; FDE 4Q2017; MS C: 4Q2017

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign.

DMSMS costs are included in Group B recurring; SE/PM costs are include in the Group B recurring; and Depot Costs are included in the Other Govt.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0207134F.

Milestone/Development Status

Critical Design Review (CDR) completed 4QFY2013, Milestone B completed 1QFY2014. Milestone C completed 4QFY2017.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	3.765	50.477	37.340	-	37.340	44.357	70.627	74.483	75.842
Total:	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1 / Advanced Display Core Processor, ADCP II-E

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Secondary Distribution	Total Obligation Authority	3.765	50.477	37.340	0.000	37.340	44.357	70.627	74.483	75.842

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01500 / F-15						Modification Number / Title: 1 / Advanced Display Core Processor, ADCP II-E		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: F-15E			Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0207134F					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
RDT&E PE #												
0207134F	- / 303.015	- / 78.626	- / 51.513	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 433.154
Procurement												
Modification Item 1 of 1: ADCP II E												
A Kits												
Recurring												
ADCP II E:INSTALL KITS Group A (Active)	- / -	2 / 0.024	31 / 0.394	36 / 0.470	- / -	36 / 0.470	36 / 0.484	53 / 0.733	59 / 0.840	0 / 0.000	- / -	217 / 2.945
<i>Subtotal: Recurring</i>	- / -	- / 0.024	- / 0.394	- / 0.470	- / -	- / 0.470	- / 0.484	- / 0.733	- / 0.840	- / 0.000	- / -	- / 2.945
B Kits												
Recurring												
ADCP II E:EQUIPMENT Group B (Active)	- / -	2 / 1.301	31 / 35.247	36 / 30.312	- / -	36 / 30.312	36 / 30.425	53 / 43.344	59 / 48.502	0 / 1.735	- / -	217 / 190.866
<i>Subtotal: Recurring</i>	- / -	- / 1.301	- / 35.247	- / 30.312	- / -	- / 30.312	- / 30.425	- / 43.344	- / 48.502	- / 1.735	- / -	- / 190.866
<i>Subtotal: ADCP II E</i>	- / -	- / 1.325	- / 35.641	- / 30.782	- / -	- / 30.782	- / 30.909	- / 44.077	- / 49.342	- / 1.735	- / -	- / 193.811
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 1.325	- / 35.641	- / 30.782	- / -	- / 30.782	- / 30.909	- / 44.077	- / 49.342	- / 1.735	- / -	- / 193.811
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING	- / 0.000	- / -	- / 10.308	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.308
Type 1 Training	- / -	- / -	- / -	- / 0.043	- / -	- / 0.043	- / 0.043	- / -	- / 0.050	- / 0.000	- / -	- / 0.136
Change Orders	- / -	- / 2.260	- / 0.000	- / -	- / -	- / -	- / -	- / 5.252	- / 5.290	- / 58.587	- / -	- / 71.389
Data	- / -	- / 0.012	- / 1.337	- / 1.406	- / -	- / 1.406	- / 1.448	- / 1.602	- / 1.690	- / 1.328	- / -	- / 8.823
SUPPORT-EQUIP	- / -	- / 0.000	- / 0.000	- / -	- / -	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / 0.000
ICS-Labor	- / -	- / -	- / 0.527	- / 0.773	- / -	- / 0.773	- / 1.265	- / 1.992	- / 2.817	- / 3.607	- / -	- / 10.981
OTHER GOVT	- / -	- / 0.010	- / 0.185	- / 1.134	- / -	- / 1.134	- / 7.625	- / 12.945	- / 9.959	- / 8.054	- / -	- / 39.912
PMA - Other Gov't Costs	- / -	- / 0.158	- / 2.479	- / 2.902	- / -	- / 2.902	- / 2.699	- / 4.391	- / 4.613	- / 1.523	- / -	- / 18.765
<i>Subtotal: Support</i>	- / 0.000	- / 2.440	- / 14.836	- / 6.258	- / -	- / 6.258	- / 13.080	- / 26.182	- / 24.419	- / 73.099	- / -	- / 160.314
Installation												
Modification Item 1 of 1: ADCP II E	- / -	- / -	- / -	28 / 0.300	- / -	28 / 0.300	22 / 0.368	37 / 0.368	44 / 0.722	86 / 1.008	- / -	217 / 2.766
<i>Subtotal: Installation</i>	- / -	- / -	- / -	28 / 0.300	- / -	28 / 0.300	22 / 0.368	37 / 0.368	44 / 0.722	86 / 1.008	- / -	217 / 2.766
Total												
Total Cost (Procurement + Support + Installation)	0.000	3.765	50.477	37.340	0.000	37.340	44.357	70.627	74.483	75.842	-	356.891

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1 / Advanced Display Core Processor, ADCP II-E

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: ADCP II E

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 15

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jun 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	
Delivery Dates	Sep 2018	Apr 2019	Apr 2020	Apr 2021	Apr 2022	Apr 2023	

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	2 / 0.020	- / -	2 / 0.020	- / -	- / -	- / -	- / -	- / -	2 / 0.020
FY 2018	- / -	- / -	- / -	26 / 0.280	- / -	26 / 0.280	5 / 0.085	- / -	- / -	- / -	- / -	31 / 0.365
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.283	19 / 0.190	- / -	- / -	- / -	36 / 0.473
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	18 / 0.178	18 / 0.288	- / -	- / -	36 / 0.466
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.434	27 / 0.324	- / -	53 / 0.758
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	59 / 0.684	- / -	59 / 0.684
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	28 / 0.300	- / -	28 / 0.300	22 / 0.368	37 / 0.368	44 / 0.722	86 / 1.008	- / -	217 / 2.766

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	0	0	0	0	0	0	0	0	2	0	13	13	3	2	8	9	9	10	9	9	9	9	13	13	22	22	22	20	0	217
Out	0	-	-	-	-	-	-	-	-	2	0	13	13	3	2	8	9	9	10	9	9	9	9	13	13	22	22	22	20	0	217

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1205 / :Advanced Display Core Processor, ADCP II-C

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	1.859	6.475	56.791	0.000	56.791	89.600	61.756	72.364	33.797	-	322.642
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	1.859	6.475	56.791	0.000	56.791	89.600	61.756	72.364	33.797	-	322.642
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	1.859	6.475	56.791	0.000	56.791	89.600	61.756	72.364	33.797	-	322.642

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

Initial Spares (<i>\$ in Millions</i>)	-	0.570	3.470	6.660	-	6.660	6.860	-	-	-	7.010	24.570
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The ADCP II upgrade ensures continued combat viability for the F-15C platform. The F-15C central computer (CC) and cockpit radar display (Vertical Situation Display) are functionally obsolete. CC speed and memory are unable to support growth beyond Operational Flight Plan (OFP) Suite 7C, and the monochrome radar display is the #1 mission degrader in the cockpit. The ADCP II system for the F-15C consists of the ADCP II Line Replaceable Unit (LRU), Vertical Situation Display Replacement (VSDR), and a Remote Interface Unit (RIU). Replacing the CC with the ADCP II mission computer (common with F-15E) will provide increased throughput and memory capability to support (OFP) upgrades beyond Suite 7C, enabling the aircraft to meet requirements of expanded datalink capabilities, sensors, electronic warfare, and forward/netcentric operations. Replacing the monochrome display with a 5x5 color display will reduce maintenance and sustainment costs while increasing the capability to fully support the APG-63(V)3 Active Electronic Scanning Array (AESA) radar, fighter datalink, and video recording. This program has associated RDT&E funding in PE 0207134F.

Requirements: AF Form 1067 approved July 2012

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign.

DMSMS costs are included in Group B recurring, SE/PM costs are included in the Group B recurring; and Depot Costs are included in the Support Equipment.

Milestone/Development Status

Development cost and milestones are reflected in the ADCP II-E program, MN 1202B.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	1.859	6.475	35.048	-	35.048	65.036	33.623	43.379	29.815
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	21.743	-	21.743	24.564	28.133	28.985	3.982
Total:									
Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force						Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01500 / F-15			Modification Number / Title: 1205 / :Advanced Display Core Processor, ADCP II-C				
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:					
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Secondary Distribution	Total Obligation Authority	1.859	6.475	56.791	0.000	56.791	89.600	61.756	72.364	33.797

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 1205 / :Advanced Display Core Processor, ADCP II-C			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-15C, F-15D				Modification Type: Reliability & Maintainability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> ADCP 2													
A Kits													
Recurring													
ADCP 2:INSTALL KITS Group A (Active)	0 / 0.000	1 / 0.051	5 / 0.264	29 / 1.566	- / -	29 / 1.566	28 / 1.596	12 / 0.672	14 / 0.812	0 / 0.000	- / -	89 / 4.961	
ADCP 2:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	25 / 1.361	- / -	25 / 1.361	26 / 1.472	28 / 1.568	28 / 1.670	0 / 0.000	- / -	107 / 6.071	
<i>Subtotal: Recurring</i>	- / 0.000	- / 0.051	- / 0.264	- / 2.927	- / -	- / 2.927	- / 3.068	- / 2.240	- / 2.482	- / 0.000	- / -	- / 11.032	
B Kits													
Recurring													
ADCP 2:EQUIPMENT Group B (Active)	0 / 0.000	1 / 0.815	5 / 4.257	29 / 23.664	- / -	29 / 23.664	28 / 23.492	12 / 10.152	14 / 12.124	- / 2.016	- / -	89 / 76.520	
ADCP 2:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	25 / 20.382	- / -	25 / 20.382	26 / 21.812	28 / 23.694	28 / 24.235	0 / 2.015	- / -	107 / 92.138	
<i>Subtotal: Recurring</i>	- / 0.000	- / 0.815	- / 4.257	- / 44.046	- / -	- / 44.046	- / 45.304	- / 33.846	- / 36.359	- / 4.031	- / -	- / 168.658	
<i>Subtotal: ADCP 2</i>	- / 0.000	- / 0.866	- / 4.521	- / 46.973	- / -	- / 46.973	- / 48.372	- / 36.086	- / 38.841	- / 4.031	- / -	- / 179.690	
<i>Subtotal: Procurement, All Modification Items</i>	- / 0.000	- / 0.866	- / 4.521	- / 46.973	- / -	- / 46.973	- / 48.372	- / 36.086	- / 38.841	- / 4.031	- / -	- / 179.690	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 0.000	- / 0.000	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	
GROUP B: TOTAL NONRECURRING	- / 0.000	- / 0.000	- / -	- / 13.493	- / -	- / 13.493	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 13.493	
Change Orders	- / 0.000	- / 0.910	- / 0.000	- / 0.000	- / -	- / 0.000	- / 30.499	- / 12.427	- / 19.507	- / 20.766	- / -	- / 84.109	
Data	- / 0.000	- / 0.007	- / 1.058	- / 1.468	- / -	- / 1.468	- / 1.520	- / 1.433	- / 1.500	- / 1.178	- / -	- / 8.164	
Type 1 Training	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.226	- / 0.135	- / 0.000	- / 0.000	- / -	- / 0.361	
SUPPORT-EQUIP	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	
ICS-Labor	- / 0.000	- / -	- / 0.116	- / 0.171	- / -	- / 0.171	- / 0.832	- / 1.876	- / 2.796	- / 3.570	- / -	- / 9.361	
PMA - Other Gov't Costs	- / 0.000	- / 0.067	- / 0.732	- / 4.044	- / -	- / 4.044	- / 4.283	- / 3.184	- / 3.758	- / 1.582	- / -	- / 17.650	
OTHER GOVT	- / 0.000	- / 0.009	- / 0.048	- / 0.532	- / -	- / 0.532	- / 0.561	- / 0.414	- / 0.462	- / 0.000	- / -	- / 2.026	
<i>Subtotal: Support</i>	- / 0.000	- / 0.993	- / 1.954	- / 19.708	- / -	- / 19.708	- / 37.921	- / 19.469	- / 28.023	- / 27.096	- / -	- / 125.164	
Installation													
<i>Modification Item 1 of 1:</i> ADCP 2	- / -	- / -	0 / 0.000	1 / 0.110	- / -	1 / 0.110	31 / 3.307	54 / 6.201	50 / 5.500	60 / 2.670	- / -	196 / 17.788	
<i>Subtotal: Installation</i>	- / -	- / -	0 / 0.000	1 / 0.110	- / -	1 / 0.110	31 / 3.307	54 / 6.201	50 / 5.500	60 / 2.670	- / -	196 / 17.788	
Total													
Total Cost (Procurement + Support + Installation)	0.000	1.859	6.475	56.791	0.000	56.791	89.600	61.756	72.364	33.797	-	322.642	

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Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1205 / :Advanced Display Core Processor, ADCP II-C

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: ADCP 2

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 15

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates	Jun 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021	Jan 2022	
Delivery Dates	Sep 2018	Apr 2019	Apr 2020	Apr 2021	Apr 2022	Apr 2023	

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	0 / 0.000	1 / 0.110	- / -	1 / 0.110	- / -	- / -	- / -	- / -	- / -	1 / 0.110
FY 2018	- / -	- / -	- / -	0 / 0.000	- / -	0 / 0.000	5 / 0.540	- / -	- / -	- / -	- / -	5 / 0.540
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	26 / 2.767	28 / 2.735	- / -	- / -	- / -	54 / 5.502
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 3.466	28 / 3.401	- / -	- / -	54 / 6.867
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 2.099	18 / 1.026	- / -	40 / 3.125
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 1.644	- / -	42 / 1.644
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	0 / 0.000	1 / 0.110	- / -	1 / 0.110	31 / 3.307	54 / 6.201	50 / 5.500	60 / 2.670	- / -	196 / 17.788

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	1	0	0	0	2	3	13	13	13	15	13	13	14	14	11	11	15	15	15	15	0	196
Out	0	-	-	-	-	-	-	-	-	1	0	0	0	2	3	13	13	13	15	13	13	14	14	11	11	15	15	15	15	0	196

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1206 / F-15C Infrared Search and Track (IRST)

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	0.000	55.133	61.889	0.000	61.889	34.533	121.077	35.615	20.918	92.711	421.876
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	0.000	55.133	61.889	0.000	61.889	34.533	121.077	35.615	20.918	92.711	421.876
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	0.000	55.133	61.889	0.000	61.889	34.533	121.077	35.615	20.918	92.711	421.876

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

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

Description:

"CDRUSPACOM has designated F-15C Infrared Search and Track (IRST) a priority program / critical investment for PBR 19"

The Infrared Search and Track (IRST) system will provide the F-15C/Ds with the capability to detect and track objects by infrared radiation. The pod complements other on board sensors by scanning a large volume of air space and fills gaps left by other sensors. This capability complements the radar to enhance survivability and lethality against air-to-air threats, provides a passive infrared sensor system that searches for and detects infrared energy, and provides the aircraft mission computer track file data on infrared targets. The Air Force will procure 100 IRST pods for use in a rotatable pool for 235 Active and Guard F-15C/D aircraft.

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign.

Requirement: IRST CDD July 2012

DMSMS costs are included in Group B NRE; SE/PM costs are include in the Group B recurring.

This program has associated Research Development Test and Evaluation (RDT&E) funding in PE 0207134F.

Milestone/Development Status

Development started in FY 2015.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	55.133	61.889	0.000	61.889	34.533	121.077	35.615	20.918
Total:	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 1206 / F-15C Infrared Search and Track (IRST)

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

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Secondary Distribution	Total Obligation Authority	0.000	55.133	61.889	0.000	61.889	34.533	121.077	35.615	20.918

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 1206 / F-15C Infrared Search and Track (IRST)			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-15C, F-15D				Modification Type: Capability Improvement				Related RDT&E PEs: 0207130F					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: IRST Pod</i>													
B Kits													
Recurring													
IRST Pod:EQUIPMENT Group B (Active)	- / -	- / -	16 / 47.001	21 / 51.487	- / -	21 / 51.487	7 / 23.522	30 / 78.873	0 / 16.626	0 / 6.315	26 / 88.155	100 / 311.979	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 47.001	- / 51.487	- / -	- / 51.487	- / 23.522	- / 78.873	- / 16.626	- / 6.315	- / 88.155	- / 311.979	
<i>Subtotal: IRST Pod</i>	- / -	- / -	- / 47.001	- / 51.487	- / -	- / 51.487	- / 23.522	- / 78.873	- / 16.626	- / 6.315	- / 88.155	- / 311.979	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 47.001	- / 51.487	- / -	- / 51.487	- / 23.522	- / 78.873	- / 16.626	- / 6.315	- / 88.155	- / 311.979	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / -	- / -	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	
Change Orders	- / -	- / -	- / 3.826	- / 3.750	- / 0.000	- / 3.750	- / 2.503	- / 10.440	- / 2.803	- / 1.169	- / 4.556	- / 29.047	
OTHER GOVT	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.264	- / 0.000	- / -	- / -	- / 15.264	
Data	- / -	- / -	- / 1.844	- / 2.095	- / 0.000	- / 2.095	- / 0.274	- / 1.242	- / 0.070	- / 0.052	- / -	- / 15.577	
SIM/TRAINER	- / -	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	
SUPPORT-EQUIP	- / -	- / -	- / 2.462	- / 4.557	- / 0.000	- / 4.557	- / 8.234	- / 15.258	- / 16.116	- / 13.382	- / -	- / 60.009	
<i>Subtotal: Support</i>	- / -	- / -	- / 8.132	- / 10.402	- / 0.000	- / 10.402	- / 11.011	- / 42.204	- / 18.989	- / 14.603	- / 4.556	- / 109.897	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	0.000	55.133	61.889	0.000	61.889	34.533	121.077	35.615	20.918	92.711	421.876	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01500 / F-15			Modification Number / Title: 1206 / F-15C Infrared Search and Track (IRST)	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: IRST Pod							
Manufacturer Information							
Manufacturer Name: Lockheed Martin				Manufacturer Location: Orlando, Florida			
Administrative Leadtime (in Months): 3				Production Leadtime (in Months): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Aug 2018	Aug 2019	Aug 2020	Aug 2021		
Delivery Dates		Feb 2020	Feb 2021	Feb 2022	Feb 2023		
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 100		

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Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 6158 / F-15C/D APG-63(V)3 radar upgrade

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,359.205	0.000	16.723	90.524	0.000	90.524	23.681	40.540	42.909	3.769	0.000	1,577.351
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,359.205	0.000	16.723	90.524	0.000	90.524	23.681	40.540	42.909	3.769	0.000	1,577.351
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,359.205	0.000	16.723	90.524	0.000	90.524	23.681	40.540	42.909	3.769	0.000	1,577.351

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

Initial Spares (<i>\$ in Millions</i>)	-	7.626	-	-	-	-	-	-	-	-	-	7.626
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The APG-63(V)3 Active Electronically Scanned Array (AESA) radar upgrade includes F-15C/D aircraft equipped with all variants of the APG-63 radar. The (V)3 AESA upgrade significantly improves Reliability, Maintainability & Supportability (RM&S), and substantially improves operational effectiveness and combat lethality of the existing APG-63 equipped aircraft. Other avionics which support radar functionality may also be upgraded.

Upgrade kits funded by the Air Force reflect the separate cost to install the kit in the year of installation. The installation cost for kits funded with congressional adds or OCO funding is included in the Group A/B kit cost in the procurement year.

Requirement: CDD 21 Apr 2005

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign. DMSMS costs are included in Group B NRE; SE/PM costs are include in the Group B recurring.

To account for Automatic Transformer Rectifier Unit (ATRU) kits that were not installed on the first 136 APG-63(V)3 radar upgrades, \$10.169M of funding has moved to MOD number 8816, APG-63(V)3 Common Config.

Milestone/Development Status

Development is complete.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.000	16.723	55.454	-	55.454	3.941	20.350	36.809	-
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	35.070	-	35.070	19.740	20.190	6.100	3.769

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force							Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01500 / F-15				Modification Number / Title: 6158 / F-15C/D APG-63(V)3 radar upgrade			
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:					
Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.000	16.723	90.524	0.000	90.524	23.681	40.540	42.909	3.769

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 6158 / F-15C/D APG-63(V)3 radar upgrade			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-15C, F-15D				Modification Type: Capability Improvement				Related RDT&E PEs: 0207134F, 0207130F					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0207130F	- / 65.272	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 65.272	
Procurement													
Modification Item 1 of 1: (V)3													
A Kits													
Recurring													
(V)3:INSTALL KITS Group A (Active)	84 / 64.171	- / -	- / -	6 / 6.060	- / -	6 / 6.060	- / -	- / -	- / -	- / -	- / -	90 / 70.231	
(V)3:INSTALL KITS Group A (Guard)	112 / 72.436	- / -	- / -	7 / 7.070	- / -	7 / 7.070	2 / 2.040	3 / 3.090	- / -	- / -	- / -	124 / 84.636	
Subtotal: Recurring	- / 136.607	- / -	- / -	- / 13.130	- / -	- / 13.130	- / 2.040	- / 3.090	- / -	- / -	- / -	- / 154.867	
B Kits													
Recurring													
(V)3:EQUIPMENT Group B (Active)	84 / 432.535	- / -	- / -	6 / 24.000	- / -	6 / 24.000	- / -	- / -	- / -	- / -	- / -	90 / 456.535	
(V)3:EQUIPMENT Group B (Guard)	112 / 513.338	- / -	- / -	7 / 28.000	- / -	7 / 28.000	2 / 8.100	3 / 12.300	- / -	- / -	- / -	124 / 561.738	
Subtotal: Recurring	- / 945.873	- / -	- / -	- / 52.000	- / -	- / 52.000	- / 8.100	- / 12.300	- / -	- / -	- / -	- / 1,018.273	
Subtotal: (V)3	- / 1,082.480	- / -	- / -	- / 65.130	- / -	- / 65.130	- / 10.140	- / 15.390	- / -	- / -	- / -	- / 1,173.140	
Subtotal: Procurement, All Modification Items	- / 1,082.480	- / -	- / -	- / 65.130	- / -	- / 65.130	- / 10.140	- / 15.390	- / -	- / -	- / -	- / 1,173.140	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING	- / 3.215	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.215	
GROUP B: TOTAL NONRECURRING	- / 81.500	- / -	- / -	- / 4.000	- / -	- / 4.000	- / -	- / 3.500	- / -	- / -	- / -	- / 89.000	
Change Orders	- / 58.206	- / 0.000	- / 5.386	- / 2.073	- / -	- / 2.073	- / 0.141	- / 6.250	- / 26.109	- / -	- / -	- / 98.165	
Data	- / 5.655	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.655	
SUPPORT-EQUIP	- / 1.353	- / 0.000	- / 5.000	- / 0.971	- / -	- / 0.971	- / -	- / -	- / -	- / -	- / -	- / 7.324	
ICS-Labor	- / 15.203	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 0.900	- / 2.500	- / 2.500	- / -	- / -	- / 21.603	
PMA - Other Gov't Costs	- / 5.917	- / 0.000	- / 0.500	- / -	- / -	- / -	- / -	- / 2.000	- / 2.000	- / -	- / -	- / 10.417	
OTHER GOVT	- / 9.169	- / 0.000	- / 0.837	- / 2.250	- / -	- / 2.250	- / 0.500	- / 2.500	- / 2.500	- / -	- / -	- / 17.756	
GFP	- / 1.457	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.457	
Mod of Spares	7 / 47.618	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 47.618	
Type 1 Training	- / 0.200	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	
Subtotal: Support	7 / 229.493	- / 0.000	- / 11.723	- / 9.794	- / -	- / 9.794	- / 1.541	- / 16.750	- / 33.109	- / -	- / -	7 / 302.410	
Installation													
Modification Item 1 of 1: (V)3	165 / 47.232	- / -	10 / 5.000	12 / 15.600	- / -	12 / 15.600	9 / 12.000	7 / 8.400	8 / 9.800	3 / 3.769	- / -	214 / 101.801	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 6158 / F-15C/D APG-63(V)3 radar upgrade

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Models of Systems Affected: F-15C, F-15D	Modification Type: Capability Improvement	Related RDT&E PEs: 0207134F, 0207130F
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Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<i>Subtotal: Installation</i>	165 / 47.232	- / -	10 / 5.000	12 / 15.600	- / -	12 / 15.600	9 / 12.000	7 / 8.400	8 / 9.800	3 / 3.769	- / -	214 / 101.801
Total												
Total Cost (Procurement + Support + Installation)	1,359.205	0.000	16.723	90.524	0.000	90.524	23.681	40.540	42.909	3.769	0.000	1,577.351

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 6158 / F-15C/D APG-63(V)3 radar upgrade

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: (V)3

Manufacturer Information

Manufacturer Name: Raytheon	Manufacturer Location: El Segundo CA/Forest MS
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Jun 2019	Apr 2020	Apr 2021		
Delivery Dates			Jun 2020	Apr 2021	Apr 2022		

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	165 / 47.232	- / -	10 / 5.000	12 / 15.600	- / -	12 / 15.600	9 / 12.000	- / -	- / -	- / -	- / -	196 / 79.832
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 8.400	6 / 7.400	- / -	- / -	13 / 15.800
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.400	- / -	- / -	2 / 2.400
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.769	- / -	3 / 3.769
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	165 / 47.232	- / -	10 / 5.000	12 / 15.600	- / -	12 / 15.600	9 / 12.000	7 / 8.400	8 / 9.800	3 / 3.769	- / -	214 / 101.801

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	165	0	0	0	0	3	2	3	2	3	3	3	3	3	3	3	-	1	2	2	2	2	2	2	2	2	1	-	-	0	214
Out	114	7	3	4	3	4	3	4	3	4	7	7	7	7	5	5	5	4	1	2	2	2	2	2	2	2	2	1	-	0	214

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8754 / F-15C/D IFF Mode 5

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	0.000	9.540	0.000	9.540	28.545	0.548	0.000	0.000	-	38.633
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	0.000	9.540	0.000	9.540	28.545	0.548	0.000	0.000	-	38.633
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.000	0.000	9.540	0.000	9.540	28.545	0.548	0.000	0.000	-	38.633

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

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

Description:

This program, P-3A Mod 8754, F-15C/D IFF Mode 5, is a new start. Mode 5 is a secure Air-to-Air Interrogator/ Identification Friend-or-Foe (AAI/IFF) system for identifying friendly aircraft. Employing a radio waveform different from secure Mode 4, Mode 5 provides vastly improved performance with a robust encryption scheme. The Mode 5 modification effort is for the F-15E and F-15C/D aircraft. This effort also includes 1) ICS started under MN 8745 and 2) Retrofit/installation of AAI/IFF kits on the F-15C/D.

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign.

DMSMS costs are included in Group B NRE; SE/PM costs are included in the Group B recurring.

Milestone/Development Status

Development Complete

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	9.540	-	9.540	12.995	0.548	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	15.550	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	9.540	0.000	9.540	28.545	0.548	0.000	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01500 / F-15						Modification Number / Title: 8754 / F-15C/D IFF Mode 5			
ID Code (A=Service Ready, B=Not Service Ready) : A							MDAP/MAIS Code:						
Models of Systems Affected: F-15C, F-15D				Modification Type: Reliability & Maintainability				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Mode 5													
B Kits													
Recurring													
Mode 5:EQUIPMENT Group B (Active)	- / -	- / -	- / -	28 / 2.900	- / -	28 / 2.900	70 / 7.950	- / -	- / -	- / -	- / -	98 / 10.850	
Mode 5:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	137 / 15.550	- / -	- / -	- / -	- / -	137 / 15.550	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 2.900	- / -	- / 2.900	- / 23.500	- / -	- / -	- / -	- / -	- / 26.400	
<i>Subtotal: Mode 5</i>	- / -	- / -	- / -	- / 2.900	- / -	- / 2.900	- / 23.500	- / -	- / -	- / -	- / -	- / 26.400	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 2.900	- / -	- / 2.900	- / 23.500	- / -	- / -	- / -	- / -	- / 26.400	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / 0.200	- / -	- / 0.200	- / 1.200	- / 0.100	- / -	- / -	- / -	- / 1.500	
Change Orders	- / -	- / -	- / -	- / 2.640	- / -	- / 2.640	- / 1.045	- / 0.248	- / -	- / -	- / -	- / 3.933	
GFP	- / -	- / -	- / -	- / 1.500	- / -	- / 1.500	- / 0.500	- / 0.000	- / -	- / -	- / -	- / 2.000	
ICS-Labor	- / -	- / -	- / -	- / 2.300	- / -	- / 2.300	- / 2.300	- / 0.200	- / -	- / -	- / -	- / 4.800	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 6.640	- / -	- / 6.640	- / 5.045	- / 0.548	- / -	- / -	- / -	- / 12.233	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	9.540	0.000	9.540	28.545	0.548	0.000	0.000	-	38.633	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01500 / F-15			Modification Number / Title: 8754 / F-15C/D IFF Mode 5	
ID Code (A=Service Ready, B=Not Service Ready) : A					MDAP/MAIS Code:		
Modification Item 1 of 1: Mode 5							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Largo, FL			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Nov 2018	Aug 2019			
Delivery Dates			Feb 2019	Nov 2019			
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 235		

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Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8755 / F-15E IFF MODE 5

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	28.035	0.000	7.976	15.725	0.000	15.725	4.470	0.520	0.000	0.000	0.000	56.726
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	28.035	0.000	7.976	15.725	0.000	15.725	4.470	0.520	0.000	0.000	0.000	56.726
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	28.035	0.000	7.976	15.725	0.000	15.725	4.470	0.520	0.000	0.000	0.000	56.726

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

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

Description:

Mode 5 is a secure Air-to-Air Interrogator/ Identification Friend-or-Foe (AAI/IFF) system for identifying friendly aircraft. Employing a radio waveform different from secure Mode 4, Mode 5 provides vastly improved performance with a robust encryption scheme. The Mode 5 modification effort is for the F-15E and F-15C/D aircraft. This effort also includes 1)ICS started under MN 8745 and 2) Procurement of new and Retrofit/ installation of AAI/IFF kits on the F-15E.

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign.

DMSMS costs are included in Group B NRE; and SE/PM costs are included in the Group B recurring.

Milestone/Development Status

Development Effort Complete

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	7.976	15.725	-	15.725	4.470	0.520	0.000	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	7.976	15.725	0.000	15.725	4.470	0.520	0.000	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 8755 / F-15E IFF MODE 5			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-15C, F-15D, F-15E				Modification Type: Reliability & Maintainability				Related RDT&E PEs: 0207134F					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> Group B Kit													
B Kits													
Recurring													
Group B Kit:EQUIPMENT Group B (Active)	- / 13.765	- / -	21 / 5.321	166 / 9.217	- / -	166 / 9.217	30 / 3.370	- / -	0 / 0.000	- / -	- / -	217 / 31.673	
<i>Subtotal: Recurring</i>	- / 13.765	- / -	- / 5.321	- / 9.217	- / -	- / 9.217	- / 3.370	- / -	- / 0.000	- / -	- / -	- / 31.673	
<i>Subtotal: Group B Kit</i>	- / 13.765	- / -	- / 5.321	- / 9.217	- / -	- / 9.217	- / 3.370	- / -	- / 0.000	- / -	- / -	- / 31.673	
<i>Subtotal: Procurement, All Modification Items</i>	- / 13.765	- / -	- / 5.321	- / 9.217	- / -	- / 9.217	- / 3.370	- / -	- / 0.000	- / -	- / -	- / 31.673	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 7.014	- / -	- / -	- / 0.000	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / 7.014	
Change Orders	- / 0.000	- / -	- / 2.255	- / 6.108	- / -	- / 6.108	- / 0.100	- / 0.100	- / -	- / -	- / -	- / 8.563	
SUPPORT-EQUIP	- / -	- / -	- / 0.200	- / 0.200	- / -	- / 0.200	- / 1.000	- / 0.420	- / -	- / -	- / -	- / 1.820	
ICS-Labor	- / 6.446	- / -	- / 0.200	- / 0.200	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / 6.846	
OTHER GOVT	- / 0.810	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.810	
<i>Subtotal: Support</i>	- / 14.270	- / -	- / 2.655	- / 6.508	- / -	- / 6.508	- / 1.100	- / 0.520	- / -	- / -	- / -	- / 25.053	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	28.035	0.000	7.976	15.725	0.000	15.725	4.470	0.520	0.000	0.000	0.000	56.726	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force						Date: February 2018	
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01500 / F-15			Modification Number / Title: 8755 / F-15E IFF MODE 5	
ID Code (A=Service Ready, B=Not Service Ready) : B					MDAP/MAIS Code:		
Modification Item 1 of 1: Group B Kit							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: Largo, FL			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 3			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Nov 2018	Nov 2019	Nov 2020			
Delivery Dates		Feb 2019	Feb 2020	Feb 2021			
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 217		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8799 / F-15C MIDS JTRS

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	7.430	21.360	0.000	21.360	26.280	46.118	41.832	6.648	37.360	187.028
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	7.430	21.360	0.000	21.360	26.280	46.118	41.832	6.648	37.360	187.028
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	7.430	21.360	0.000	21.360	26.280	46.118	41.832	6.648	37.360	187.028

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

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

Description:

This upgrade integrates and installs a new Link 16 system on the F-15C that complies with an NSA mandate on cryptographic modernization and an FAA mandate on frequency remapping. The FAA mandate requires all fielded Link-16 terminals incorporate the frequency re-mapping capability by 2025.

In addition to meeting the two mandates, the system will significantly increase data link capacity and improves long range performance and the ability to operate in a jamming environment. It will also reduce sustainment costs due to its commonality with other DoD assets.

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign.

DMSMS costs are included in Group B NRE; SE/PM costs are included in the Group B recurring; and Depot Costs are included in the Support Equipment.

Milestone/Development Status

Integration started in FY 2016. Integrating Navy MIDS-JTRS LRUs into F15 Suite 9 OFP

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	7.430	8.700	-	8.700	13.450	30.537	18.740	4.333
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	12.660	-	12.660	12.830	15.581	23.092	2.315
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	0.000	7.430	21.360	0.000	21.360	26.280	46.118	41.832	6.648

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 8799 / F-15C MIDS JTRS			
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-15C				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1:</i> MIDS JTRS C Model													
A Kits													
Recurring													
MIDS JTRS C Model:INSTALL KITS Group A (Active)	- / -	- / -	13 / 0.390	11 / 0.340	- / -	11 / 0.340	3 / 0.100	22 / 1.184	40 / 1.485	- / -	- / -	89 / 3.499	
MIDS JTRS C Model:INSTALL KITS Group A (Guard)	- / -	- / -	- / -	31 / 0.960	- / -	31 / 0.960	31 / 0.980	12 / 0.646	33 / 1.225	- / -	- / -	107 / 3.811	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.390	- / 1.300	- / -	- / 1.300	- / 1.080	- / 1.830	- / 2.710	- / -	- / -	- / 7.310	
B Kits													
Recurring													
MIDS JTRS C Model:EQUIPMENT Group B (Active)	- / -	- / -	13 / 4.900	11 / 4.150	- / -	11 / 4.150	3 / 1.150	22 / 9.175	40 / 14.215	- / -	- / -	89 / 33.590	
MIDS JTRS C Model:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	31 / 11.700	- / -	31 / 11.700	31 / 11.850	12 / 5.005	33 / 11.727	- / -	- / -	107 / 40.282	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 4.900	- / 15.850	- / -	- / 15.850	- / 13.000	- / 14.180	- / 25.942	- / -	- / -	- / 73.872	
<i>Subtotal: MIDS JTRS C Model</i>	- / -	- / -	- / 5.290	- / 17.150	- / -	- / 17.150	- / 14.080	- / 16.010	- / 28.652	- / -	- / -	- / 81.182	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 5.290	- / 17.150	- / -	- / 17.150	- / 14.080	- / 16.010	- / 28.652	- / -	- / -	- / 81.182	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / 1.440	- / 3.930	- / -	- / 3.930	- / 4.110	- / 5.300	- / 2.000	- / -	- / -	- / 16.780	
Change Orders	- / -	- / -	- / 0.630	- / 0.060	- / -	- / 0.060	- / 2.350	- / 11.018	- / 0.000	- / 0.000	- / 10.440	- / 24.498	
ICS-Labor	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.030	- / 0.060	- / 0.090	- / 0.250	- / 0.430	
SUPPORT-EQUIP	- / -	- / -	- / 0.070	- / 0.220	- / -	- / 0.220	- / 0.180	- / 0.300	- / 0.000	- / -	- / -	- / 0.770	
<i>Subtotal: Support</i>	- / -	- / -	- / 2.140	- / 4.210	- / -	- / 4.210	- / 6.640	- / 16.648	- / 2.060	- / 0.090	- / 10.690	- / 42.478	
Installation													
<i>Modification Item 1 of 1:</i> MIDS JTRS C Model	- / -	- / -	- / -	- / -	- / -	- / -	13 / 5.560	42 / 13.460	34 / 11.120	34 / 6.558	73 / 26.670	196 / 63.368	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	13 / 5.560	42 / 13.460	34 / 11.120	34 / 6.558	73 / 26.670	196 / 63.368	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	7.430	21.360	0.000	21.360	26.280	46.118	41.832	6.648	37.360	187.028	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8799 / F-15C MIDS JTRS
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: MIDS JTRS C Model

Manufacturer Information

Manufacturer Name: BAE Systems Manufacturer Location: Wayne, NJ

Administrative Leadtime (in Months): 12 Production Leadtime (in Months): 12

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	
Delivery Dates		Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023	

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	13 / 5.560	- / -	- / -	- / -	- / -	13 / 5.560
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	42 / 13.460	- / -	- / -	- / -	42 / 13.460
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 11.120	- / -	- / -	34 / 11.120
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 6.558	- / -	34 / 6.558
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	73 / 26.670	73 / 26.670
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	13 / 5.560	42 / 13.460	34 / 11.120	34 / 6.558	73 / 26.670	196 / 63.368

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0	7	6	10	10	11	11	8	8	9	9	8	8	9	9	73	196
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	0	0	7	6	10	10	11	11	8	8	9	9	8	8	9	9	73	196

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8800 / F-15E MIDS JTRS

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

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	13.823	19.040	0.000	19.040	27.844	36.018	40.259	19.962	15.800	172.746
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	13.823	19.040	0.000	19.040	27.844	36.018	40.259	19.962	15.800	172.746
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	13.823	19.040	0.000	19.040	27.844	36.018	40.259	19.962	15.800	172.746

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

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

Description:

This upgrade integrates and installs a new Link 16 system on the F-15E that complies with an NSA mandate on cryptographic modernization and an FAA mandate on frequency remapping. The FAA mandate requires all fielded Link-16 terminals incorporate the frequency re-mapping capability by 2025.

In addition to meeting the two mandates, the system will significantly increase data link capacity and improve long range performance and the ability to operate in a jamming environment. It will also reduce sustainment costs due to its commonality with other DoD assets.

Funding may be used to resolve Diminishing Manufacturing Sources/Material Shortages (DMSMS) and/or obsolescence issues. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign.

DMSMS costs are included in Group B NRE; SE/PM costs are included in the Group B recurring; and Depot Costs are included in the Support Equipment.

Milestone/Development Status

MIDS JTRS will be integrated in OFF Suite 9

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	13.823	19.040	-	19.040	27.844	36.018	40.259	19.962
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	13.823	19.040	0.000	19.040	27.844	36.018	40.259	19.962

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force										Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01500 / F-15						Modification Number / Title: 8800 / F-15E MIDS JTRS		
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:					
Models of Systems Affected: F-15E				Modification Type: Capability Improvement				Related RDT&E PEs: 0207134F				
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
RDT&E PE #												
0207134F	- / 12.796	- / 44.136	- / 12.010	- / 6.670	- / -	- / 6.670	- / 11.320	- / 16.140	- / 8.450	- / 8.602	- / -	- / 120.124
Procurement												
Modification Item 1 of 1: MIDS JTRS												
A Kits												
Recurring												
MIDS JTRS:INSTALL KITS Group A (Active)	- / -	- / -	26 / 0.790	36 / 1.120	- / -	36 / 1.120	50 / 1.590	61 / 1.990	45 / 1.510	- / -	- / -	218 / 7.000
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.790	- / 1.120	- / -	- / 1.120	- / 1.590	- / 1.990	- / 1.510	- / -	- / -	- / 7.000
B Kits												
Recurring												
MIDS JTRS:EQUIPMENT Group B (Active)	- / -	- / -	26 / 9.330	36 / 12.940	- / -	36 / 12.940	50 / 18.140	61 / 22.540	45 / 16.780	- / -	- / -	218 / 79.730
<i>Subtotal: Recurring</i>	- / -	- / -	- / 9.330	- / 12.940	- / -	- / 12.940	- / 18.140	- / 22.540	- / 16.780	- / -	- / -	- / 79.730
<i>Subtotal: MIDS JTRS</i>	- / -	- / -	- / 10.120	- / 14.060	- / -	- / 14.060	- / 19.730	- / 24.530	- / 18.290	- / -	- / -	- / 86.730
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 10.120	- / 14.060	- / -	- / 14.060	- / 19.730	- / 24.530	- / 18.290	- / -	- / -	- / 86.730
Support (All Modification Items)												
GROUP B: TOTAL NONRECURRING												
Change Orders	- / -	- / -	- / 1.103	- / 1.500	- / -	- / 1.500	- / 0.000	- / 0.000	- / 3.679	- / 2.182	- / 1.480	- / 9.944
SUPPORT-EQUIP	- / -	- / -	- / 0.130	- / 0.180	- / -	- / 0.180	- / 0.000	- / 0.000	- / 0.250	- / -	- / -	- / 0.560
ICS-Labor	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.030	- / 0.060	- / 0.100	- / 0.510	- / 0.700
<i>Subtotal: Support</i>	- / -	- / -	- / 3.703	- / 4.980	- / -	- / 4.980	- / 0.304	- / 1.418	- / 8.179	- / 2.282	- / 1.990	- / 22.856
Installation												
Modification Item 1 of 1: MIDS JTRS												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	26 / 7.810	36 / 10.070	50 / 13.790	61 / 17.680	45 / 13.810	218 / 63.160
Total												
Total Cost (Procurement + Support + Installation)	0.000	0.000	13.823	19.040	0.000	19.040	27.844	36.018	40.259	19.962	15.800	172.746

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8800 / F-15E MIDS JTRS
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: MIDS JTRS

Manufacturer Information

Manufacturer Name: BAE Systems Manufacturer Location: Wayne, NJ

Administrative Leadtime (in Months): 12 Production Leadtime (in Months): 12

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Oct 2018	Oct 2019	Oct 2020	Oct 2021	Oct 2022	
Delivery Dates		Oct 2019	Oct 2020	Oct 2021	Oct 2022	Oct 2023	

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	26 / 7.810	- / -	- / -	- / -	- / -	26 / 7.810
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	36 / 10.070	- / -	- / -	- / -	36 / 10.070
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 13.790	- / -	- / -	50 / 13.790
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	61 / 17.680	- / -	61 / 17.680
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	45 / 13.810	45 / 13.810
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	26 / 7.810	36 / 10.070	50 / 13.790	61 / 17.680	45 / 13.810	218 / 63.160

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	10	9	9	9	9	12	12	13	13	15	15	15	16	45	218
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	10	9	9	9	9	12	12	13	13	15	15	15	16	45	218

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8801 / F-15 C/D SLEP Longerons

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	7.023	5.900	0.000	5.900	24.500	31.520	32.100	32.678	78.742	212.463
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	7.023	5.900	0.000	5.900	24.500	31.520	32.100	32.678	78.742	212.463
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.000	7.023	5.900	0.000	5.900	24.500	31.520	32.100	32.678	78.742	212.463

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

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

Description:

The F-15C/D Service Life Extension Program (SLEP) for the Longerons addresses a potential safety of flight issue and is required to support the fleet required service life to 2045. The requirement is documented via AF 1067 15-199 dated 6 Jan 16. No additional development to the existing Longerons configuration is required. Data for replacement kits is resident within the F-15 program office. This is a Group B ONLY MOD.

Funds may be used to resolve emerging safety of flight and diminishing manufacturing sources issues, obsolescence issues, accommodate technology insertion and fulfill FAA or other mandates necessary to ensure continued aircrew safety and mission effectiveness. DMSMS activities may include, but are not limited to, bridge buys, life of type buys, buys to protect production schedule, and minor engineering efforts for redesign. DMSMS costs are included in Group B NRE; SE/PM costs are included in the Group B recurring; and Depot Costs are included in the Support Equipment.

Program procuring 237 Longerons Kits; 2 Kits will be destroyed during First Article Testing; 235 will be installed

Milestone/Development Status

This program replaces the components according to their original design. Therefore, no development effort or funding required.

Secondary Distribution	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	4.023	4.400	-	4.400	17.148	20.784	16.852	17.806
AFNG									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	3.000	1.500	-	1.500	7.352	10.736	15.248	14.872
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	0.000	7.023	5.900	0.000	5.900	24.500	31.520	32.100	32.678

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force										Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 8801 / F-15 C/D SLEP Longerons				
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:							
Models of Systems Affected: F-15C, F-15D				Modification Type: Service Life Extension				Related RDT&E PEs:						
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total		
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)		
Procurement														
<i>Modification Item 1 of 1:</i> Longeron Configuration A														
B Kits														
Recurring														
Longeron Configuration A:EQUIPMENT Group B (Active)	- / -	- / -	4 / 1.200	6 / 1.800	- / -	6 / 1.800	9 / 2.700	17 / 5.100	17 / 5.100	17 / 5.100	28 / 8.400	98 / 29.400		
Longeron Configuration A:EQUIPMENT Group B (Guard)	- / -	- / -	10 / 3.000	5 / 1.500	- / -	5 / 1.500	22 / 6.600	22 / 6.600	22 / 6.600	22 / 6.600	36 / 10.800	139 / 41.700		
<i>Subtotal: Recurring</i>	- / -	- / -	- / 4.200	- / 3.300	- / -	- / 3.300	- / 9.300	- / 11.700	- / 11.700	- / 11.700	- / 19.200	- / 71.100		
<i>Subtotal: Longeron Configuration A</i>	- / -	- / -	- / 4.200	- / 3.300	- / -	- / 3.300	- / 9.300	- / 11.700	- / 11.700	- / 11.700	- / 19.200	- / 71.100		
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 4.200	- / 3.300	- / -	- / 3.300	- / 9.300	- / 11.700	- / 11.700	- / 11.700	- / 19.200	- / 71.100		
Support (All Modification Items)														
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / 0.200		
A&AS	- / -	- / -	- / 1.000	- / 0.928	- / -	- / 0.928	- / 3.000	- / 3.000	- / 3.000	- / 3.000	- / 6.000	- / 19.928		
FAA CERTIFICATION	- / -	- / -	- / 1.300	- / 1.254	- / -	- / 1.254	- / -	- / -	- / -	- / -	- / -	- / 2.554		
SUPPORT-EQUIP	- / -	- / -	- / 0.473	- / 0.000	- / -	- / 0.000	- / 1.300	- / -	- / -	- / -	- / -	- / 1.773		
PMA - Other Gov't Costs	- / -	- / -	- / 0.050	- / -	- / -	- / -	- / 0.045	- / 0.050	- / 0.050	- / 0.050	- / 0.150	- / 0.395		
Change Orders	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.527	- / 9.626	- / 5.694	- / 3.264	- / -	- / 28.111		
<i>Subtotal: Support</i>	- / -	- / -	- / 2.823	- / 2.182	- / -	- / 2.182	- / 14.072	- / 12.676	- / 8.744	- / 6.314	- / 6.150	- / 52.961		
Installation														
<i>Modification Item 1 of 1:</i> Longeron Configuration A	- / -	- / -	- / -	1 / 0.418	- / -	1 / 0.418	3 / 1.128	19 / 7.144	31 / 11.656	39 / 14.664	142 / 53.392	235 / 88.402		
<i>Subtotal: Installation</i>	- / -	- / -	- / -	1 / 0.418	- / -	1 / 0.418	3 / 1.128	19 / 7.144	31 / 11.656	39 / 14.664	142 / 53.392	235 / 88.402		
Total														
Total Cost (Procurement + Support + Installation)	-	0.000	7.023	5.900	0.000	5.900	24.500	31.520	32.100	32.678	78.742	212.463		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2019 Air Force **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8801 / F-15 C/D SLEP Longerons
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ID Code (A=Service Ready, B=Not Service Ready) : B **MDAP/MAIS Code:**

Modification Item 1 of 1: Longeron Configuration A

Manufacturer Information

Manufacturer Name: TBD Manufacturer Location: Robins AFB

Administrative Leadtime (in Months): 0 Production Leadtime (in Months): 12

Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates		Aug 2018	Jun 2019	Jun 2020	Jun 2021	Jun 2022	Jun 2023
Delivery Dates		Aug 2019	Jun 2020	Jun 2021	Jun 2022	Jun 2023	Jun 2024

Installation Information

Method of Implementation: Depot

Installation Cost	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	1 / 0.418	- / -	1 / 0.418	3 / 1.128	10 / 3.760	- / -	- / -	- / -	14 / 5.306
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 3.384	2 / 0.752	- / -	- / -	11 / 4.136
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 10.904	2 / 0.752	- / -	31 / 11.656
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	37 / 13.912	2 / 0.752	39 / 14.664
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 14.664	39 / 14.664
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 14.664	39 / 14.664
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	62 / 23.312	62 / 23.312
Total	- / -	- / -	- / -	1 / 0.418	- / -	1 / 0.418	3 / 1.128	19 / 7.144	31 / 11.656	39 / 14.664	142 / 53.392	235 / 88.402

Installation Schedule

	PYS	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	0	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	4	4	5	6	7	8	8	8	9	10	10	10	142	235
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	4	4	5	6	7	8	8	8	9	10	162	235

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Exhibit P-3a, Individual Modification: PB 2019 Air Force		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8810 / F-15E APG-82(V)1 Common Config

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	0.000	1.190	19.007	0.000	19.007	12.625	24.012	4.967	5.056	-	66.857
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	0.000	1.190	19.007	0.000	19.007	12.625	24.012	4.967	5.056	-	66.857
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	0.000	1.190	19.007	0.000	19.007	12.625	24.012	4.967	5.056	-	66.857

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

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

Description:

APG-82(v)1 Common Config ensures common configuration of hardware across the entire F-15E fleet. GPP3 retrofit for the APG-82(v)1 radar replaces obsolete components on the F-15E aircraft to bring the Radar Modernization Program (RMP) equipped jets to a common configuration. GPP3 is a new general purpose processor needed to replace the obsolete GPP1 in the APG-82(v)1 radar. GPP3 retrofit also replaces the obsolete DDS2 waveform generator with the new DDS3. The Automatic Transformer Rectifier Unit(ATRU) retrofit provides a new Isolation Unit, current-sensing contactor, and restrictor to the RMP equipped jets in order to resolve a known Deficiency Report causing dual generator failures on the F-15E aircraft.

Procure and Install Automatic Transformer Rectifier Unit (ATRU) kits to correct the generator system architecture design deficiency for USAF F-15 E model's equipped with the APG-82(V)1 radar. \$9.460M of funding is sourced from APG-82(V)1 RMP, Mod number 1202.

Milestone/Development Status

Development is complete.

Secondary Distribution		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.190	19.007	-	19.007	12.625	24.012	4.967	5.056
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	1.190	19.007	0.000	19.007	12.625	24.012	4.967	5.056

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Exhibit P-3a, Individual Modification: PB 2019 Air Force											Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2				P-1 Line Item Number / Title: F01500 / F-15				Modification Number / Title: 8810 / F-15E APG-82(V)1 Common Config					
ID Code (A=Service Ready, B=Not Service Ready) : B							MDAP/MAIS Code:						
Models of Systems Affected: F-15E				Modification Type: Capability Improvement				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
<i>Modification Item 1 of 1: GPP3</i>													
A Kits													
Recurring													
GPP3:INSTALL KITS Group A (Active)	- / -	- / -	- / -	50 / 1.200	- / -	50 / 1.200	50 / 1.200	40 / 0.900	- / -	- / -	- / -	140 / 3.300	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 1.200	- / -	- / 1.200	- / 1.200	- / 0.900	- / -	- / -	- / -	- / 3.300	
B Kits													
Recurring													
GPP3:EQUIPMENT Group B (Active)	- / -	- / -	- / -	50 / 11.000	- / -	50 / 11.000	50 / 11.000	40 / 8.250	- / -	- / -	- / -	140 / 30.250	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 11.000	- / -	- / 11.000	- / 11.000	- / 8.250	- / -	- / -	- / -	- / 30.250	
<i>Subtotal: GPP3</i>	- / -	- / -	- / -	- / 12.200	- / -	- / 12.200	- / 12.200	- / 9.150	- / -	- / -	- / -	- / 33.550	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 12.200	- / -	- / 12.200	- / 12.200	- / 9.150	- / -	- / -	- / -	- / 33.550	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING													
Change Orders	- / -	- / -	- / 1.190	- / 16.807	- / -	- / 16.807	- / 10.425	- / 14.862	- / 4.967	- / 5.056	- / -	- / 33.307	
<i>Subtotal: Support</i>	- / -	- / -	- / 1.190	- / 16.807	- / -	- / 16.807	- / 10.425	- / 14.862	- / 4.967	- / 5.056	- / -	- / 33.307	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	0.000	1.190	19.007	0.000	19.007	12.625	24.012	4.967	5.056	-	66.857	

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Exhibit P-3a, Individual Modification: PB 2019 Air Force					Date: February 2018		
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2			P-1 Line Item Number / Title: F01500 / F-15		Modification Number / Title: 8810 / F-15E APG-82(V)1 Common Config		
ID Code (A=Service Ready, B=Not Service Ready) : B				MDAP/MAIS Code:			
Modification Item 1 of 1: GPP3							
Manufacturer Information							
Manufacturer Name: Raytheon				Manufacturer Location: El Segundo CA/Forest MS			
Administrative Leadtime (<i>in Months</i>): 3				Production Leadtime (<i>in Months</i>): 18			
Dates	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Contract Dates			Jan 2019	Jan 2020	Jan 2021		
Delivery Dates			Jul 2020	Jul 2021	Jul 2022		
Installation Information							
Method of Implementation (Organic): Org/Intermediate					Installation Quantity: 0		