

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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): A	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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	3,388.065	440.856	474.137	349.304	-	349.304	293.959	279.135	243.308	336.012	16.870	5,821.646
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	3,388.065	440.856	474.137	349.304	-	349.304	293.959	279.135	243.308	336.012	16.870	5,821.646
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	3,388.065	440.856	474.137	349.304	-	349.304	293.959	279.135	243.308	336.012	16.870	5,821.646
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	15.233	34.155	16.738	-	16.738	11.240	5.295	0.340	-	-	83.001
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	420.031	440.912	345.574	-	345.574	287.559	270.735	243.308	336.012
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	20.825	33.225	3.730	-	3.730	6.400	8.400	0.000	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	440.856	474.137	349.304	-	349.304	293.959	279.135	243.308	336.012

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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): A **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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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***	1203 / F-15 C/D Secondary Power System (SPS) (Reliability & Maintainability)				- / 7.492	- / -	- / -	- / -	- / -	- / -
P-40a***	1205 / :Advanced Display Core Processor, ADCP II-C (Reliability & Maintainability)				- / 49.258	- / 58.091	- / 72.094	- / 0.000	- / -	- / 0.000
P-40a***	1206 / F-15C Infrared Search and Track (IRST) (Capability Improvement)				- / 62.151	- / 63.394	- / 0.000	- / -	- / -	- / -
P-40a***	1209 / F-15 C/D Flight Data Recorder (FDR) (Capability Improvement)				- / 24.808	- / 0.020	- / -	- / -	- / -	- / -
P-40a***	1210 / F-15E Flight Data Recorder (FDR) (Capability Improvement)				- / 142.446	- / 0.027	- / -	- / -	- / -	- / -
P-40a***	6158 / F-15C/D APG-63(V)3 radar upgrade (Capability Improvement)				- / 1,364.928	- / 0.011	- / 23.681	- / 0.000	- / -	- / 0.000
P-40a***	8353 / F-15E -JOINT HELMET-MOUNTED CUEING SYSTEM (Reliability & Maintainability)				- / 103.924	- / 0.600	- / -	- / -	- / -	- / -
P-40a***	8662 / AETC MTD UPGRADES-FIELD TRAINING DETACHMENTS (Service Life Extension)				- / 6.500	- / 0.296	- / 1.147	- / 0.103	- / -	- / 0.103
P-40a***	8754 / F-15C/D IFF Mode 5 (Reliability & Maintainability)				- / -	- / 24.909	- / 29.656	- / 0.000	- / -	- / 0.000
P-40a***	8755 / F-15E IFF MODE 5 (Reliability & Maintainability)				- / 36.041	- / 17.671	- / 15.257	- / 2.080	- / -	- / 2.080
P-40a***	8756 / F-15C/D Link 16 Cryptographic Modernization (Capability Improvement)				- / 0.002	- / -	- / -	- / -	- / -	- / -
P-40a***	8794 / F-15C/D Beyond Line Of Sight Communications (Capability Improvement)				- / 54.427	- / 0.001	- / -	- / -	- / -	- / -
P-40a***	8797 / F-15C Passive Attack Sensor System (Capability Improvement)				- / 28.577	- / -	- / -	- / -	- / -	- / -
P-40a***	8798 / 5th to 4th Gen Gateway (Capability Improvement)				- / -	- / 3.698	- / -	- / -	- / -	- / -
P-40a***	8799 / F-15C MIDS JTRS (Capability Improvement)				- / 7.430	- / 19.270	- / 41.640	- / -	- / -	- / -
P-40a***	8806 / F-15 C/D Cabin Pressure Indicator (Safety)				- / 2.653	- / 0.120	- / -	- / -	- / -	- / -
P-40a***	8807 / F-15 E Cabin Pressure Indicator (Safety)				- / 7.648	- / 8.245	- / -	- / -	- / -	- / -
P-40a***	8811 / F-15E SATCOM UON (Other)				- / 17.700	- / -	- / -	- / -	- / -	- / -
P-40a***	8813 / F-15E B61 A/C Umbilical (Capability Improvement)				- / 0.542	- / -	- / -	- / -	- / -	- / -
P-40a***	8815 / F-15C Simulator Upgrade (Capability Improvement)				- / 15.000	- / -	- / -	- / -	- / -	- / -
P-40a***	8816 / F-15C/D APG-63(V)3 Common Config (Reliability & Maintainability)				- / -	- / 4.326	- / 4.352	- / 1.510	- / -	- / 1.510
P-40a***	8817 / F-15E DTM II (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	8820 / F-15E Digital Color Display (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / -
P-40a***	99999U / LOW COST RETROFIT MODS (Service Life Extension)				- / 5.765	- / 1.501	- / 0.001	- / 0.001	- / -	- / 0.001
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / 5.788	- / 0.001	- / 0.001	- / -	- / -	- / -
P-3a	1202 / F-15E Radar Modernization Program APG-82(V)1 (Capability Improvement)		A		- / 1,336.722	- / 168.118	- / 176.225	- / 234.248	- / 0.000	- / 234.248

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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): A **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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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		- / 86.257	- / 10.520	- / 49.187	- / 43.956	- / 0.000	- / 43.956
P-3a	8800 / F-15E MIDS JTRS (Capability Improvement)		B		- / 14.983	- / 19.040	- / 27.844	- / 29.011	- / 0.000	- / 29.011
P-3a	8801 / F-15 C/D SLEP Longerons (Service Life Extension)		B		- / 7.023	- / 5.900	- / 24.627	- / 6.333	- / 0.000	- / 6.333
P-3a	8804 / F-15 F-15 E/MUOS (Capability Improvement)		B		- / -	- / -	- / 0.630	- / 8.050	- / 0.000	- / 8.050
P-3a	8810 / F-15E APG-82(V)1 Common Config (Capability Improvement)		B		- / 0.000	- / 35.097	- / 7.795	- / 24.012	- / 0.000	- / 24.012
P-40	Total Gross/Weapon System Cost				- / 3,388.065	- / 440.856	- / 474.137	- / 349.304	- / -	- / 349.304

Exhibits Schedule					FY 2022	FY 2023	FY 2024	FY 2025	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***	1203 / F-15 C/D Secondary Power System (SPS) (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 7.492
P-40a***	1205 / Advanced Display Core Processor, ADCP II-C (Reliability & Maintainability)				- / 0.000	- / 0.000	- / -	- / -	- / -	- / 179.443
P-40a***	1206 / F-15C Infrared Search and Track (IRST) (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 125.545
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***	6158 / F-15C/D APG-63(V)3 radar upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 1,388.620
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)				- / 0.181	- / 0.252	- / 1.233	- / 1.255	- / -	- / 10.967
P-40a***	8754 / F-15C/D IFF Mode 5 (Reliability & Maintainability)				- / -	- / -	- / -	- / -	- / -	- / 54.565
P-40a***	8755 / F-15E IFF MODE 5 (Reliability & Maintainability)				- / 0.190	- / 0.200	- / -	- / -	- / -	- / 71.439
P-40a***	8756 / F-15C/D Link 16 Cryptographic Modernization (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 0.002
P-40a***	8794 / F-15C/D Beyond Line Of Sight Communications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 54.428
P-40a***	8797 / F-15C Passive Attack Sensor System (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 28.577
P-40a***	8798 / 5th to 4th Gen Gateway (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 3.698
P-40a***	8799 / F-15C MIDS JTRS (Capability Improvement)				- / 18.556	- / 3.564	- / -	- / -	- / -	- / 90.460
P-40a***	8806 / F-15 C/D Cabin Pressure Indicator (Safety)				- / -	- / -	- / -	- / -	- / -	- / 2.773
P-40a***	8807 / F-15 E Cabin Pressure Indicator (Safety)				- / -	- / -	- / -	- / -	- / -	- / 15.893
P-40a***	8811 / F-15E SATCOM UON (Other)				- / -	- / -	- / -	- / -	- / -	- / 17.700

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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

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): A **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 2022	FY 2023	FY 2024	FY 2025	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***	8813 / F-15E B61 A/C Umbilical (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 0.542
P-40a***	8815 / F-15C Simulator Upgrade (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 15.000
P-40a***	8816 / F-15C/D APG-63(V)3 Common Config (Reliability & Maintainability)				- / 0.909	- / 0.069	- / -	- / -	- / -	- / 11.166
P-40a***	8817 / F-15E DTM II (Reliability & Maintainability)				- / 7.540	- / 9.920	- / 11.010	- / 50.000	- / -	- / 78.470
P-40a***	8820 / F-15E Digital Color Display (Capability Improvement)				- / 15.159	- / 17.619	- / 25.216	- / 90.930	- / 7.000	- / 155.924
P-40a***	99999U / LOW COST RETROFIT MODS (Service Life Extension)				- / -	- / -	- / -	- / -	- / -	- / 7.268
P-40a***	99999X / Low Cost Modifications (Capability Improvement)				- / -	- / -	- / -	- / -	- / -	- / 5.790
P-3a	1202 / F-15E Radar Modernization Program APG-82(V)1 (Capability Improvement)		A		- / 92.462	- / 94.114	- / 95.814	- / 102.808	- / -	- / 2,300.511
P-3a	1 / Advanced Display Core Processor, ADCP II-E (Reliability & Maintainability)		B		- / 78.142	- / 65.876	- / 40.328	- / 0.000	- / -	- / 374.266
P-3a	8800 / F-15E MIDS JTRS (Capability Improvement)		B		- / 41.119	- / 19.818	- / 33.051	- / 0.000	- / -	- / 184.866
P-3a	8801 / F-15 C/D SLEP Longerons (Service Life Extension)		B		- / 26.054	- / 31.695	- / 0.000	- / 0.000	- / 0.000	- / 101.632
P-3a	8804 / F-15 F-15 E/MUOS (Capability Improvement)		B		- / 8.680	- / 30.952	- / 31.509	- / 91.019	- / 9.870	- / 180.710
P-3a	8810 / F-15E APG-82(V)1 Common Config (Capability Improvement)		B		- / 4.967	- / 5.056	- / 5.147	- / -	- / -	- / 82.074
P-40	Total Gross/Weapon System Cost				- / 293.959	- / 279.135	- / 243.308	- / 336.012	- / 16.870	- / 5,821.646

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

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

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

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Exhibit P-3a, Individual Modification: PB 2021 Air Force		Date: February 2020
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,336.722	168.118	176.225	234.248	0.000	234.248	92.462	94.114	95.814	102.808	-	2,300.511
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,336.722	168.118	176.225	234.248	0.000	234.248	92.462	94.114	95.814	102.808	-	2,300.511
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,336.722	168.118	176.225	234.248	0.000	234.248	92.462	94.114	95.814	102.808	-	2,300.511

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

Initial Spares (<i>\$ in Millions</i>)	6.114	3.880	7.771	6.218	-	6.218	5.350	4.050	-	-	-	33.383
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: 218. 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 2008, 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.

Milestone/Development Status

Development is complete.

Secondary Distribution	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	168.118	176.225	234.248	-	234.248	92.462	94.114	95.814	102.808
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	168.118	176.225	234.248	0.000	234.248	92.462	94.114	95.814	102.808

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force										Date: February 2020			
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	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)	170 / 245.406	17 / 23.944	16 / 24.753	15 / 24.677	- / -	15 / 24.677	- / -	- / -	- / -	- / -	- / -	218 / 318.780	
<i>Subtotal: Recurring</i>	- / 245.406	- / 23.944	- / 24.753	- / 24.677	- / -	- / 24.677	- / -	- / -	- / -	- / -	- / -	- / 318.780	
B Kits													
Recurring													
APG-82(v)1:EQUIPMENT Group B (Active)	170 / 740.377	17 / 83.732	16 / 86.516	15 / 92.201	- / -	15 / 92.201	- / -	- / -	- / -	- / -	- / -	218 / 1,002.826	
<i>Subtotal: Recurring</i>	- / 740.377	- / 83.732	- / 86.516	- / 92.201	- / -	- / 92.201	- / -	- / -	- / -	- / -	- / -	- / 1,002.826	
<i>Subtotal: APG-82(v)1</i>	- / 985.783	- / 107.676	- / 111.269	- / 116.878	- / -	- / 116.878	- / -	- / -	- / -	- / -	- / -	- / 1,321.606	
<i>Subtotal: Procurement, All Modification Items</i>	- / 985.783	- / 107.676	- / 111.269	- / 116.878	- / -	- / 116.878	- / -	- / -	- / -	- / -	- / -	- / 1,321.606	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 130.435	- / 8.600	- / 5.100	- / 5.400	- / -	- / 5.400	- / -	- / -	- / -	- / -	- / -	- / 149.535	
OTHER GOVT	- / 2.886	- / 19.300	- / -	- / 37.994	- / -	- / 37.994	- / 35.363	- / 45.239	- / 60.417	- / 84.808	- / -	- / 286.007	
Change Orders	- / 91.396	- / 6.025	- / 15.366	- / 27.106	- / -	- / 27.106	- / 10.799	- / 6.275	- / 9.997	- / 10.000	- / -	- / 176.964	
Data	- / 13.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.295	
Type 1 Training	- / 0.501	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.501	
SUPPORT-EQUIP	- / 12.445	- / 1.015	- / 1.020	- / 1.035	- / -	- / 1.035	- / -	- / -	- / -	- / -	- / -	- / 15.515	
ICS-Labor	- / 140.919	- / 14.147	- / 18.070	- / 18.398	- / -	- / 18.398	- / 20.000	- / 15.000	- / 9.000	- / 5.000	- / -	- / 130.534	
PMA - Other Gov't Costs	- / 17.115	- / 3.000	- / 3.000	- / 3.000	- / -	- / 3.000	- / 3.000	- / 3.000	- / 3.000	- / 3.000	- / -	- / 38.115	
<i>Subtotal: Support</i>	- / 308.992	- / 42.087	- / 42.556	- / 92.933	- / -	- / 92.933	- / 69.162	- / 69.514	- / 82.414	- / 102.808	- / -	- / 810.466	
Installation													
<i>Modification Item 1 of 1:</i> APG-82(v)1	86 / 41.947	24 / 18.355	24 / 22.400	24 / 24.437	- / -	24 / 24.437	24 / 23.300	24 / 24.600	12 / 13.400	- / -	- / -	218 / 168.439	
<i>Subtotal: Installation</i>	86 / 41.947	24 / 18.355	24 / 22.400	24 / 24.437	- / -	24 / 24.437	24 / 23.300	24 / 24.600	12 / 13.400	- / -	- / -	218 / 168.439	
Total													
Total Cost (Procurement + Support + Installation)	1,336.722	168.118	176.225	234.248	0.000	234.248	92.462	94.114	95.814	102.808	-	2,300.511	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force		Date: February 2020
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 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Contract Dates	Mar 2019	Mar 2020	Mar 2021				
Delivery Dates	Sep 2020	Sep 2021	Sep 2022				

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	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	86 / 41.947	24 / 18.355	24 / 22.400	24 / 24.437	- / -	24 / 24.437	12 / 11.650	- / -	- / -	- / -	- / -	170 / 118.789
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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	86 / 41.947	24 / 18.355	24 / 22.400	24 / 24.437	- / -	24 / 24.437	24 / 23.300	24 / 24.600	12 / 13.400	- / -	- / -	218 / 168.439

Installation Schedule

	PYS	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				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	86	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	-	-	-	-	-	-	0	218
Out	80	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	-	-	-	-	-	0	218

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force		Date: February 2020
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	86.257	10.520	49.187	43.956	0.000	43.956	78.142	65.876	40.328	0.000	-	374.266
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	86.257	10.520	49.187	43.956	0.000	43.956	78.142	65.876	40.328	0.000	-	374.266
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	86.257	10.520	49.187	43.956	0.000	43.956	78.142	65.876	40.328	0.000	-	374.266
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	0.500	6.220	6.400	6.600	-	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, including tail number 86-0184, 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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	10.520	49.187	43.956	-	43.956	78.142	65.876	40.328	-
Total:									
Quantity	-	-	-	-	-	-	-	-	-

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force		Date: February 2020
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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Secondary Distribution		FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025
Secondary Distribution	Total Obligation Authority	10.520	49.187	43.956	0.000	43.956	78.142	65.876	40.328	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force										Date: February 2020			
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	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	- / 196.483	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 196.483	
Procurement													
Modification Item 1 of 1: ADCP II E													
A Kits													
Recurring													
ADCP II E:INSTALL KITS Group A (Active)	69 / 0.888	0 / 0.000	36 / 0.484	53 / 0.733	- / -	53 / 0.733	60 / 0.840	- / -	- / -	- / -	- / -	218 / 2.945	
<i>Subtotal: Recurring</i>	- / 0.888	- / 0.000	- / 0.484	- / 0.733	- / -	- / 0.733	- / 0.840	- / -	- / -	- / -	- / -	- / 2.945	
B Kits													
Recurring													
ADCP II E:EQUIPMENT Group B (Active)	69 / 70.048	0 / 0.000	36 / 35.255	53 / 40.741	- / -	53 / 40.741	60 / 48.502	0 / 1.735	- / -	- / -	- / -	218 / 196.281	
<i>Subtotal: Recurring</i>	- / 70.048	- / 0.000	- / 35.255	- / 40.741	- / -	- / 40.741	- / 48.502	- / 1.735	- / -	- / -	- / -	- / 196.281	
<i>Subtotal: ADCP II E</i>	- / 70.936	- / 0.000	- / 35.739	- / 41.474	- / -	- / 41.474	- / 49.342	- / 1.735	- / -	- / -	- / -	- / 199.226	
<i>Subtotal: Procurement, All Modification Items</i>	- / 70.936	- / 0.000	- / 35.739	- / 41.474	- / -	- / 41.474	- / 49.342	- / 1.735	- / -	- / -	- / -	- / 199.226	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / 6.808	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.808	
Type 1 Training	- / -	- / 0.043	- / 0.043	- / -	- / -	- / -	- / 0.050	- / 0.000	- / -	- / -	- / -	- / 0.136	
Change Orders	- / 2.275	- / 0.300	- / 0.258	- / 0.000	- / -	- / 0.000	- / 0.541	- / 45.089	- / 21.688	- / -	- / -	- / 70.151	
Data	- / 1.349	- / 1.406	- / 1.448	- / 0.000	- / -	- / 0.000	- / 1.690	- / 1.328	- / 1.400	- / -	- / -	- / 8.621	
SUPPORT-EQUIP	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	
ICS-Labor	- / 0.527	- / 2.735	- / 1.265	- / 1.992	- / -	- / 1.992	- / 11.517	- / 3.607	- / 3.900	- / -	- / -	- / 25.543	
OTHER GOVT	- / 1.725	- / 3.134	- / 7.625	- / -	- / -	- / -	- / 9.799	- / 8.054	- / 9.000	- / -	- / -	- / 39.337	
PMA - Other Gov't Costs	- / 2.637	- / 2.902	- / 2.699	- / -	- / -	- / -	- / 4.623	- / 5.403	- / 4.000	- / -	- / -	- / 22.264	
<i>Subtotal: Support</i>	- / 15.321	- / 10.520	- / 13.338	- / 1.992	- / -	- / 1.992	- / 28.220	- / 63.481	- / 39.988	- / -	- / -	- / 172.860	
Installation													
Modification Item 1 of 1: ADCP II E	- / -	- / -	11 / 0.110	49 / 0.490	- / -	49 / 0.490	58 / 0.580	66 / 0.660	34 / 0.340	- / -	- / -	218 / 2.180	
<i>Subtotal: Installation</i>	- / -	- / -	11 / 0.110	49 / 0.490	- / -	49 / 0.490	58 / 0.580	66 / 0.660	34 / 0.340	- / -	- / -	218 / 2.180	
Total													
Total Cost (Procurement + Support + Installation)	86.257	10.520	49.187	43.956	0.000	43.956	78.142	65.876	40.328	0.000	-	374.266	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force		Date: February 2020
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 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Contract Dates		Jan 2020	Jan 2021	Jan 2022			
Delivery Dates		Apr 2021	Apr 2022	Apr 2023			

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	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	- / -	- / -	11 / 0.110	49 / 0.490	- / -	49 / 0.490	9 / 0.090	- / -	- / -	- / -	- / -	69 / 0.690
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	36 / 0.360	- / -	- / -	- / -	- / -	36 / 0.360
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	13 / 0.130	40 / 0.400	- / -	- / -	- / -	53 / 0.530
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 0.260	34 / 0.340	- / -	- / -	60 / 0.600
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	11 / 0.110	49 / 0.490	- / -	49 / 0.490	58 / 0.580	66 / 0.660	34 / 0.340	- / -	- / -	218 / 2.180

Installation Schedule

	PYS	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				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	1	1	0	9	14	22	11	2	12	16	13	17	16	17	17	16	16	12	6	-	-	-	-	-	0	218
Out	0	0	0	0	0	1	1	0	9	14	22	11	2	12	16	13	17	16	17	17	16	16	12	6	-	-	-	-	-	0	218

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force		Date: February 2020
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:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	14.983	19.040	27.844	29.011	0.000	29.011	41.119	19.818	33.051	0.000	-	184.866
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	14.983	19.040	27.844	29.011	0.000	29.011	41.119	19.818	33.051	0.000	-	184.866
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	14.983	19.040	27.844	29.011	0.000	29.011	41.119	19.818	33.051	0.000	-	184.866

(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 OFP Suite 9. Milestone C was approved June 2018.

Secondary Distribution	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	19.040	27.844	29.011	-	29.011	41.119	19.818	33.051	-
Total:									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	19.040	27.844	29.011	0.000	29.011	41.119	19.818	33.051	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force										Date: February 2020			
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	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	- / 72.604	- / 6.670	- / 11.320	- / 1.550	- / -	- / 1.550	- / -	- / -	- / -	- / -	- / -	- / 92.144	
Procurement													
Modification Item 1 of 1: MIDS JTRS													
A Kits													
Recurring													
MIDS JTRS:INSTALL KITS Group A (Active)	26 / 0.233	44 / 0.341	26 / 0.388	40 / 0.314	- / -	40 / 0.314	61 / 0.629	- / -	- / -	- / -	- / -	197 / 1.905	
<i>Subtotal: Recurring</i>	- / 0.233	- / 0.341	- / 0.388	- / 0.314	- / -	- / 0.314	- / 0.629	- / -	- / -	- / -	- / -	- / 1.905	
B Kits													
Recurring													
MIDS JTRS:EQUIPMENT Group B (Active)	26 / 11.076	44 / 18.699	26 / 11.076	40 / 17.040	- / -	40 / 17.040	61 / 25.986	- / -	- / -	- / -	- / -	197 / 83.877	
<i>Subtotal: Recurring</i>	- / 11.076	- / 18.699	- / 11.076	- / 17.040	- / -	- / 17.040	- / 25.986	- / -	- / -	- / -	- / -	- / 83.877	
<i>Subtotal: MIDS JTRS</i>	- / 11.309	- / 19.040	- / 11.464	- / 17.354	- / -	- / 17.354	- / 26.615	- / -	- / -	- / -	- / -	- / 85.782	
<i>Subtotal: Procurement, All Modification Items</i>	- / 11.309	- / 19.040	- / 11.464	- / 17.354	- / -	- / 17.354	- / 26.615	- / -	- / -	- / -	- / -	- / 85.782	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING													
Change Orders	- / 2.550	- / -	- / 6.050	- / 1.459	- / -	- / 1.459	- / 4.550	- / 18.402	- / 5.411	- / -	- / -	- / 38.422	
SUPPORT-EQUIP	- / -	- / -	- / 0.152	- / -	- / -	- / -	- / 0.530	- / -	- / -	- / -	- / -	- / 0.682	
<i>Subtotal: Support</i>	- / 3.674	- / -	- / 7.599	- / 1.459	- / -	- / 1.459	- / 6.289	- / 18.402	- / 5.411	- / -	- / -	- / 42.834	
Installation													
Modification Item 1 of 1: MIDS JTRS													
<i>Subtotal: Installation</i>	- / -	- / -	31 / 8.781	36 / 10.198	- / -	36 / 10.198	29 / 8.215	45 / 1.416	56 / 27.640	- / -	- / -	197 / 56.250	
<i>Subtotal: Installation</i>	- / -	- / -	31 / 8.781	36 / 10.198	- / -	36 / 10.198	29 / 8.215	45 / 1.416	56 / 27.640	- / -	- / -	197 / 56.250	
Total													
Total Cost (Procurement + Support + Installation)	14.983	19.040	27.844	29.011	0.000	29.011	41.119	19.818	33.051	0.000	-	184.866	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force		Date: February 2020
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:
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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): 11

Dates	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Contract Dates	Oct 2019	Oct 2020	Oct 2021	Oct 2022			
Delivery Dates	Sep 2020	Sep 2021	Sep 2022	Sep 2023			

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	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	- / -	- / -	26 / 7.365	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 7.365
FY 2019	- / -	- / -	5 / 1.416	31 / 8.782	- / -	31 / 8.782	8 / 2.266	- / -	- / -	- / -	- / -	44 / 12.464
FY 2020	- / -	- / -	- / -	5 / 1.416	- / -	5 / 1.416	21 / 5.949	- / -	- / -	- / -	- / -	26 / 7.365
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.000	- / -	- / -	- / -	40 / 0.000
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.416	56 / 27.640	- / -	- / -	61 / 29.056
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	31 / 8.781	36 / 10.198	- / -	36 / 10.198	29 / 8.215	45 / 1.416	56 / 27.640	- / -	- / -	197 / 56.250

Installation Schedule

	PYS	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				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	-	-	-	-	7	7	8	9	9	9	9	9	7	7	8	7	15	15	10	5	14	14	14	14	-	-	-	-	0	197
Out	0	-	-	-	-	7	7	8	9	9	9	9	9	7	7	8	7	15	15	10	5	14	14	14	14	-	-	-	-	0	197

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force		Date: February 2020
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	7.023	5.900	24.627	6.333	0.000	6.333	26.054	31.695	0.000	0.000	0.000	101.632
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	7.023	5.900	24.627	6.333	0.000	6.333	26.054	31.695	0.000	0.000	0.000	101.632
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	7.023	5.900	24.627	6.333	0.000	6.333	26.054	31.695	0.000	0.000	0.000	101.632

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

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

Description:

The F-15C/D Service Life Extension Program (SLEP) for the Longerons is required to address a current safety of flight issue that has grounded numerous aircraft and is resulting in an increasing mission impact. Without this program, 170/234 aircraft will be grounded by 2024 and the fleet will be unable to meet its required service life. 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.

Milestone/Development Status

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

Secondary Distribution		FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.500	17.247	3.343	-	3.343	19.654	23.295	0.000	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.400	7.380	2.990	-	2.990	6.400	8.400	0.000	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.900	24.627	6.333	0.000	6.333	26.054	31.695	0.000	0.000

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force										Date: February 2020			
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	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)	11 / 2.090	20 / 2.380	32 / 5.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	63 / 9.570	
Longeron Configuration A:EQUIPMENT Group B (Guard)	19 / 3.610	14 / 3.400	32 / 5.780	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	65 / 12.790	
<i>Subtotal: Recurring</i>	- / 5.700	- / 5.780	- / 10.880	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.360	
<i>Subtotal: Longeron Configuration A</i>	- / 5.700	- / 5.780	- / 10.880	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.360	
<i>Subtotal: Procurement, All Modification Items</i>	- / 5.700	- / 5.780	- / 10.880	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 22.360	
Support (All Modification Items)													
GROUP B: TOTAL NONRECURRING	- / -	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	
A&AS	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / 0.000	
SUPPORT-EQUIP	- / 1.313	- / 0.042	- / 1.062	- / -	- / -	- / -	- / 0.000	- / -	- / -	- / -	- / -	- / 2.417	
PMA - Other Gov't Costs	- / 0.010	- / 0.038	- / 2.585	- / 0.353	- / -	- / 0.353	- / 0.077	- / -	- / -	- / -	- / -	- / 3.063	
Change Orders	- / -	- / 0.040	- / 7.100	- / -	- / -	- / -	- / 12.377	- / 18.095	- / -	- / -	- / -	- / 37.612	
<i>Subtotal: Support</i>	- / 1.323	- / 0.120	- / 10.947	- / 0.353	- / -	- / 0.353	- / 12.454	- / 18.095	- / -	- / -	- / -	- / 43.292	
Installation													
<i>Modification Item 1 of 1:</i> Longeron Configuration A	- / -	- / -	7 / 2.800	26 / 5.980	- / -	26 / 5.980	34 / 13.600	34 / 13.600	27 / 0.000	- / -	- / -	128 / 35.980	
<i>Subtotal: Installation</i>	- / -	- / -	7 / 2.800	26 / 5.980	- / -	26 / 5.980	34 / 13.600	34 / 13.600	27 / 0.000	- / -	- / -	128 / 35.980	
Total													
Total Cost (Procurement + Support + Installation)	7.023	5.900	24.627	6.333	0.000	6.333	26.054	31.695	0.000	0.000	0.000	101.632	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force											Date: February 2020																				
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:																				
Modification Item 1 of 1: Longeron Configuration A																															
Manufacturer Information																															
Manufacturer Name: Boeing											Manufacturer Location: Robins AFB																				
Administrative Leadtime (in Months): 0											Production Leadtime (in Months): 18																				
Dates	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025																								
Contract Dates	Jun 2019	Feb 2020																													
Delivery Dates	Dec 2020	Aug 2021																													
Installation Information																															
Method of Implementation: Depot																															
Installation Cost	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total																			
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)																		
Prior Years	- / -	- / -	7 / 2.800	15 / 3.450	- / -	15 / 3.450	8 / 3.200	- / -	- / -	- / -	- / -	- / -	30 / 9.450																		
FY 2019	- / -	- / -	- / -	11 / 2.530	- / -	11 / 2.530	18 / 7.200	5 / 2.000	- / -	- / -	- / -	- / -	34 / 11.730																		
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	8 / 3.200	29 / 11.600	27 / 0.000	- / -	- / -	- / -	64 / 14.800																		
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
Total	- / -	- / -	7 / 2.800	26 / 5.980	- / -	26 / 5.980	34 / 13.600	34 / 13.600	27 / 0.000	- / -	- / -	- / -	128 / 35.980																		
Installation Schedule																															
	PYS	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				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	-	-	-	-	-	2	2	3	6	7	6	7	8	9	8	9	8	9	8	9	6	7	7	7	-	-	-	-	0	128
Out	0	-	-	-	-	-	2	2	3	6	7	6	7	8	9	8	9	8	9	8	9	6	7	7	7	-	-	-	-	0	128

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8804 / F-15 F-15 E/MUOS

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	-	0.630	8.050	0.000	8.050	8.680	30.952	31.509	91.019	9.870	180.710
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	-	0.630	8.050	0.000	8.050	8.680	30.952	31.509	91.019	9.870	180.710
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	0.630	8.050	0.000	8.050	8.680	30.952	31.509	91.019	9.870	180.710

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

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

Description:

The F-15 requires SATCOM radio upgrade for Mobile User Objective System (MUOS)/Second Generation Anti-jam Tactical UHF Radio for NATO(SATURN) capability to meet mission requirements that is limited by legacy systems. SATURN is required to provide secure line of sight tactical communication and replace the legacy Have Quick II system. It also requires an update to crypto system to overcome obsolescence of the current KY-58. The MUOS/SATURN program will equip F-15E's with MUOS/SATURN-capable radios. The MUOS/SATURN program will comply with the NSA Crypto modernization mandates.

Milestone/Development Status

MUOS will be integrated into Suite 9.2 or later

Secondary Distribution		FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.630	8.050	-	8.050	8.680	30.952	31.509	91.019
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	0.630	8.050	0.000	8.050	8.680	30.952	31.509	91.019

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2021 Air Force										Date: February 2020			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2					P-1 Line Item Number / Title: F01500 / F-15					Modification Number / Title: 8804 / F-15 F-15 E/MUOS			
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	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 (2)													
A Kits													
Recurring													
Group B:INSTALL KITS Group A (Active)	- / -	- / -	1 / 0.010	12 / 0.120	- / -	12 / 0.120	24 / 0.240	50 / 0.500	50 / 0.500	50 / 0.500	31 / 0.310	218 / 2.180	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.010	- / 0.120	- / -	- / 0.120	- / 0.240	- / 0.500	- / 0.500	- / 0.500	- / 0.310	- / 2.180	
B Kits													
Recurring													
Group B:EQUIPMENT Group B (Active)	- / -	- / -	1 / 0.230	12 / 5.520	- / -	12 / 5.520	24 / 8.080	50 / 11.500	50 / 11.500	50 / 11.500	31 / 7.130	218 / 55.460	
<i>Subtotal: Recurring</i>	- / -	- / -	- / 0.230	- / 5.520	- / -	- / 5.520	- / 8.080	- / 11.500	- / 11.500	- / 11.500	- / 7.130	- / 55.460	
<i>Subtotal: Group B (2)</i>	- / -	- / -	- / 0.240	- / 5.640	- / -	- / 5.640	- / 8.320	- / 12.000	- / 12.000	- / 12.000	- / 7.440	- / 57.640	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / 0.240	- / 5.640	- / -	- / 5.640	- / 8.320	- / 12.000	- / 12.000	- / 12.000	- / 7.440	- / 57.640	
Support (All Modification Items)													
Change Orders	- / -	- / -	- / 0.390	- / 2.380	- / -	- / 2.380	- / -	- / 18.232	- / 18.009	- / 77.519	- / -	- / 116.530	
<i>Subtotal: Support</i>	- / -	- / -	- / 0.390	- / 2.380	- / -	- / 2.380	- / -	- / 18.232	- / 18.009	- / 77.519	- / -	- / 116.530	
Installation													
<i>Modification Item 1 of 1:</i> Group B (2)	- / -	- / -	- / -	1 / 0.030	- / -	1 / 0.030	12 / 0.360	24 / 0.720	50 / 1.500	50 / 1.500	81 / 2.430	218 / 6.540	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	1 / 0.030	- / -	1 / 0.030	12 / 0.360	24 / 0.720	50 / 1.500	50 / 1.500	81 / 2.430	218 / 6.540	
Total													
Total Cost (Procurement + Support + Installation)	-	-	0.630	8.050	0.000	8.050	8.680	30.952	31.509	91.019	9.870	180.710	

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Exhibit P-3a, Individual Modification: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 2	P-1 Line Item Number / Title: F01500 / F-15	Modification Number / Title: 8804 / F-15 F-15 E/MUOS
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ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Modification Item 1 of 1: Group B (2)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 0	Production Leadtime (in Months): 10
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Dates	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Contract Dates		Oct 2020	Oct 2021	Oct 2022	Oct 2023	Oct 2024	Oct 2025
Delivery Dates		Aug 2021	Aug 2022	Aug 2023	Aug 2024	Aug 2025	Aug 2026

Installation Information

Method of Implementation: Contract Field Team

Installation Cost	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	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 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	1 / 0.030	- / -	1 / 0.030	- / -	- / -	- / -	- / -	- / -	1 / 0.030
FY 2021	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.360	- / -	- / -	- / -	- / -	12 / 0.360
FY 2022	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.720	- / -	- / -	- / -	24 / 0.720
FY 2023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 1.500	- / -	- / -	50 / 1.500
FY 2024	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 1.500	- / -	50 / 1.500
FY 2025	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 1.500	50 / 1.500
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	31 / 0.930	31 / 0.930
Total	- / -	- / -	- / -	1 / 0.030	- / -	1 / 0.030	12 / 0.360	24 / 0.720	50 / 1.500	50 / 1.500	81 / 2.430	218 / 6.540

Installation Schedule

	PYS	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				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	-	3	4	5	6	6	6	6	12	12	13	13	12	12	13	13	81	218
Out	0	-	-	-	-	-	-	-	-	-	-	-	1	-	3	4	5	6	6	6	6	12	12	13	13	12	12	13	13	81	218

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Exhibit P-3a, Individual Modification: PB 2021 Air Force		Date: February 2020
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	35.097	7.795	24.012	0.000	24.012	4.967	5.056	5.147	-	-	82.074
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	35.097	7.795	24.012	0.000	24.012	4.967	5.056	5.147	-	-	82.074
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	35.097	7.795	24.012	0.000	24.012	4.967	5.056	5.147	-	-	82.074

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

Initial Spares (<i>\$ in Millions</i>)	0.000	-	0.000	1.470	-	1.470	1.200	0.915	-	-	-	3.585
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.

Milestone/Development Status

Development is complete.

Secondary Distribution	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025
AF									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	35.097	7.795	24.012	-	24.012	4.967	5.056	5.147	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	35.097	7.795	24.012	0.000	24.012	4.967	5.056	5.147	-

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Exhibit P-3a, Individual Modification: PB 2021 Air Force										Date: February 2020			
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	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)	- / -	57 / 3.000	48 / 1.200	35 / 0.900	- / -	35 / 0.900	- / -	- / -	- / -	- / -	- / -	140 / 5.100	
<i>Subtotal: Recurring</i>	- / -	- / 3.000	- / 1.200	- / 0.900	- / -	- / 0.900	- / -	- / -	- / -	- / -	- / -	- / 5.100	
B Kits													
Recurring													
GPP3:EQUIPMENT Group B (Active)	- / -	57 / 21.204	48 / 6.170	35 / 8.250	- / -	35 / 8.250	- / -	- / -	- / -	- / -	- / -	140 / 35.624	
<i>Subtotal: Recurring</i>	- / -	- / 21.204	- / 6.170	- / 8.250	- / -	- / 8.250	- / -	- / -	- / -	- / -	- / -	- / 35.624	
<i>Subtotal: GPP3</i>	- / -	- / 24.204	- / 7.370	- / 9.150	- / -	- / 9.150	- / -	- / -	- / -	- / -	- / -	- / 40.724	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 24.204	- / 7.370	- / 9.150	- / -	- / 9.150	- / -	- / -	- / -	- / -	- / -	- / 40.724	
Support (All Modification Items)													
GROUP A: TOTAL NONRECURRING													
Change Orders	- / 0.000	- / 10.893	- / 0.425	- / 14.862	- / -	- / 14.862	- / 4.967	- / 5.056	- / 5.147	- / -	- / -	- / 41.350	
<i>Subtotal: Support</i>	- / 0.000	- / 10.893	- / 0.425	- / 14.862	- / -	- / 14.862	- / 4.967	- / 5.056	- / 5.147	- / -	- / -	- / 41.350	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	0.000	35.097	7.795	24.012	0.000	24.012	4.967	5.056	5.147	-	-	82.074	

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Exhibit P-3a, Individual Modification: PB 2021 Air Force					Date: February 2020		
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 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
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: 140		