

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C01700 / C-17A
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items: 0401130F	Other Related Program Elements: 0401130F
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Line Item MDAP/MAIS Code: 200	Item MDAP/MAIS Code(s):
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	2,446.290	98.197	89.394	46.997	-	46.997	73.679	61.880	41.330	52.846	-	2,910.613
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	2,446.290	98.197	89.394	46.997	-	46.997	73.679	61.880	41.330	52.846	-	2,910.613
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,446.290	98.197	89.394	46.997	-	46.997	73.679	61.880	41.330	52.846	-	2,910.613

(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 C-17 aircraft. The four engine C-17 is the only aircraft capable of routine delivery of outsize cargo (tanks, helicopters, etc.) to short, austere airfields. The aircraft can carry up to 102 troops, 36 litter patients, or 18 standard 463-L pallets.

The Air Force C-17 inventory is 222 aircraft with a certified service life (CSL) of 42,750 equivalent flight hours (EFH). The CSL is captured in the USAF Technical Airworthiness Authority issued legacy C-17 Military Type Certificate No. C-17-C0001 dated 28 February 2013. The current EFH for the C-17 is 9500 hours.

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), these items are 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 PE 0401130F.

Major C-17 modifications in FY16 include Pylon Stub Flammable Fluid Leakage Zone (FFLZ) Fixed Fairing (FF) Translating Fairing, Identification Friend or Foe Global Air Traffic Management (IFF GATM) Mode 5, ILS Identification and Flight Control Updates and Next Generation Communication Navigation Surveillance/Air Traffic Management (CNS/ATM). OBIGGS II and MFOQA terminate in FY16.

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
AF	-	-	-	-	-	-	-	-	-
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	70.509	72.966	45.527	-	45.527	73.679	32.297	37.576	48.759

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

Appropriation / Budget Activity / Budget Sub Activity: 3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft	P-1 Line Item Number / Title: C01700 / C-17A
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items: 0401130F	Other Related Program Elements: 0401130F
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Line Item MDAP/MAIS Code: 200	Item MDAP/MAIS Code(s):
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		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	14.303	14.514	0.630	-	0.630	-	27.677	1.362	1.858
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	13.385	1.914	0.840	-	0.840	-	1.906	2.392	2.229
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	98.197	89.394	46.997	-	46.997	73.679	61.880	41.330	52.846

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

P-1 Line Item Number / Title:
C01700 / C-17A

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** 0401130F **Other Related Program Elements:** 0401130F

Line Item MDAP/MAIS Code: 200 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / Pylon Stub FFLZ, FF, Translating Fairing (Safety)	P-40a***		- / 43.937	- / 17.234	- / 10.286	- / 3.462	- / -	- / 3.462
2 / ELT Frequency Change (Capability Improvement)	P-40a***		- / 3.062	- / -	- / -	- / -	- / -	- / -
3 / MFOQA (Capability Improvement)	P-40a***		- / 7.954	- / 1.611	- / 1.996	- / 1.538	- / -	- / 1.538
4 / Replacement Heads Up Display (RHUD) (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / -
5 / C-17 Sim Threat Generator (Other)	P-40a***		- / 11.792	- / -	- / -	- / -	- / -	- / -
6 / Block 13 to 17 Retrofit (Capability Improvement)	P-40a***		- / 797.416	- / 44.290	- / 26.053	- / -	- / -	- / -
7 / AIRLIFT DEFENSIVE SYSTEMS-COUNTERMEASURES (Capability Improvement)	P-40a***		- / 0.498	- / -	- / -	- / -	- / -	- / -
8 / NEXT GEN CNS/ATM (Capability Improvement)	P-40a***		- / -	- / -	- / 13.772	- / 1.108	- / -	- / 1.108
9 / OBIGGS II (Capability Improvement)	P-40a***		- / 75.813	- / 11.064	- / -	- / -	- / -	- / -
10 / OBIGGS II Filter Fire Mitigation (2.1) (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / -
11 / Extended Range Retrofit/OBIGGS II (Capability Improvement)	P-40a***		- / 178.132	- / 8.504	- / -	- / -	- / -	- / -
12 / LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) (Capability Improvement)	P-40a***		- / 1,284.939	- / -	- / -	- / -	- / -	- / -
13 / Mobility Air Force Dynamic Retasking Capability (MAF DRC) (Capability Improvement)	P-40a***		- / 20.575	- / -	- / -	- / -	- / -	- / -
14 / Fixed Installation Satellite Antenna (FISA 2) (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / -
15 / LOW COST MODIFICATIONS (Capability Improvement)	P-40a***		- / 3.194	- / -	- / 1.999	- / 0.011	- / -	- / 0.011
1508 / IFF GATM Mode 5 (Capability Improvement)	P-3a		- / 13.323	- / 11.679	- / 23.298	- / 31.023	- / -	- / 31.023
9739 / ILS Identification and Flight Control Computer Updates (Capability Improvement)	P-3a		- / 5.655	- / 3.815	- / 11.990	- / 9.855	- / -	- / 9.855
Total Gross/Weapon System Cost			- / 2,446.290	- / 98.197	- / 89.394	- / 46.997	- / -	- / 46.997

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
1 / Pylon Stub FFLZ, FF, Translating Fairing (Safety)	P-40a***		- / 8.264	- / 4.923	- / -	- / -	- / -	- / 88.106
2 / ELT Frequency Change (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 3.062
3 / MFOQA (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 13.099
4 / Replacement Heads Up Display (RHUD) (Capability Improvement)	P-40a***		- / -	- / -	- / 9.380	- / 40.412	- / -	- / 49.792
5 / C-17 Sim Threat Generator (Other)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 11.792
6 / Block 13 to 17 Retrofit (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 867.759
7 / AIRLIFT DEFENSIVE SYSTEMS-COUNTERMEASURES (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 0.498
8 / NEXT GEN CNS/ATM (Capability Improvement)	P-40a***		- / 6.349	- / -	- / -	- / -	- / -	- / 21.229
9 / OBIGGS II (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 86.877

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

Appropriation / Budget Activity / Budget Sub Activity:
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 3: Airlift Aircraft

P-1 Line Item Number / Title:
C01700 / C-17A

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** 0401130F **Other Related Program Elements:** 0401130F

Line Item MDAP/MAIS Code: 200 **Item MDAP/MAIS Code(s):**

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
10 / OBIGGS II Filter Fire Mitigation (2.1) (Capability Improvement)	P-40a***		- / -	- / 0.109	- / 0.960	- / 2.169	- / -	- / 3.238
11 / Extended Range Retrofit/OBIGGS II (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 186.636
12 / LARGE AIRCRAFT INFRARED COUNTERMEASURES (LAIRCM) (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 1,284.939
13 / Mobility Air Force Dynamic Retasking Capability (MAF DRC) (Capability Improvement)	P-40a***		- / -	- / -	- / -	- / -	- / -	- / 20.575
14 / Fixed Installation Satellite Antenna (FISA 2) (Capability Improvement)	P-40a***		- / -	- / 9.103	- / 19.672	- / -	- / -	- / 28.775
15 / LOW COST MODIFICATIONS (Capability Improvement)	P-40a***		- / 0.110	- / 0.114	- / 0.013	- / -	- / -	- / 5.441
1508 / IFF GATM Mode 5 (Capability Improvement)	P-3a		- / 49.890	- / 47.631	- / 11.305	- / 10.265	- / -	- / 198.414
9739 / ILS Identification and Flight Control Computer Updates (Capability Improvement)	P-3a		- / 9.066	- / -	- / -	- / -	- / -	- / 40.381
Total Gross/Weapon System Cost			- / 73.679	- / 61.880	- / 41.330	- / 52.846	- / -	- / 2,910.613

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

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

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

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

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Exhibit P-3a, Individual Modification: PB 2016 Air Force							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3				P-1 Line Item Number / Title: C01700 / C-17A				Modification Number / Title: 1508 / IFF GATM Mode 5				

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	13.323	11.679	23.298	31.023	-	31.023	49.890	47.631	11.305	10.265	-	198.414
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	13.323	11.679	23.298	31.023	-	31.023	49.890	47.631	11.305	10.265	-	198.414
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	13.323	11.679	23.298	31.023	-	31.023	49.890	47.631	11.305	10.265	-	198.414

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

Initial Spares (<i>\$ in Millions</i>)	1.268	2.975	3.094	3.218	-	3.218	3.347	3.480	2.272	-	-	19.654
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This project will equip C-17 aircraft with an upgraded identification friend or foe (IFF) system and software upgrades to meet future military and civil transponder-reporting requirements. Concerns regarding the capabilities and vulnerabilities of existing military secure, encrypted IFF systems resulted in an AMC requirement for an upgraded mode 5 IFF capability.

This requirement is documented in a Joint Requirements Oversight Council (JROC) approved operational requirements document (ORD). The project upgrades the current APX-119 and KIV-77 (crypto unit) line-replaceable units (LRUs) to provide the Mode 5 capability. The full capabilities of the digital IFF will be integrated in the C-17 to provide the enhanced Mode 5 capabilities.

This project also replaces the current mission computer/core integrated processor (MC/CIP). A form, fit, and function CIP replacement at the LRU level replaces the existing CIP for Block 17 aircraft. The CIP replacement will be operationally transparent to the aircrew. The CIP replacement shall provide processing throughput improvement and added memory capabilities to support future capability upgrade via block software.

Due to synergies with loading software and depot downtime, installations of the following capabilities from the C-17 Communication/Navigation & Capability Mandate (CN/CM) Program (Automatic Dependent Surveillance - Broadcast (ADS-B) Out and a communications upgrade) are included as part of the CIP & Mode 5 Plus upgrade packages starting in FY17.

The project includes procuring Government Furnished Equipment of IFF Transponders, Precision Landing System Receiver (PLSR) Software Upgrades, ARC-210 Gen 5, and Radio Control Units.

Compliance deadline for Mode 5 is IOC of 40 C-17s by end of FY14 and FOC by the end of FY20. All installs will be complete by CY20. Installs are performed at Boeing Support Systems-San Antonio and at WR-ALC.

Funding may be used to address Diminishing Manufacturing Sources (DMS) issues. Projected allocations by component are subject to total force mission priorities and aircraft availability.

Milestone/Development Status

Development Complete

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Exhibit P-3a, Individual Modification: PB 2016 Air Force **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 1508 / IFF GATM Mode 5
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Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.679	23.298	31.023	-	31.023	49.890	22.134	7.551	6.178
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	24.553	1.362	1.858
AFR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	0.944	2.392	2.229
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	11.679	23.298	31.023	-	31.023	49.890	47.631	11.305	10.265

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Exhibit P-3a, Individual Modification: PB 2016 Air Force										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3					P-1 Line Item Number / Title: C01700 / C-17A					Modification Number / Title: 1508 / IFF GATM Mode 5			
Models of Systems Affected: C-17				Modification Type: Capability Improvement				Related RDT&E PEs: 0401130F					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0401130F	- / 27.411	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.411	
Procurement													
Modification Item 1 of 1: Mode 5													
B Kits													
Recurring													
Mode 5:EQUIPMENT Group B (Active)	40 / 5.849	33 / 10.232	33 / 13.074	33 / 17.959	- / -	33 / 17.959	33 / 32.238	6 / 5.666	- / -	- / -	- / -	178 / 85.018	
Mode 5:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 24.553	- / -	- / -	- / -	26 / 24.553	
Mode 5:EQUIPMENT Group B (Reserve)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.944	17 / 2.392	- / -	- / -	18 / 3.336	
Subtotal: Recurring	- / 5.849	- / 10.232	- / 13.074	- / 17.959	- / -	- / 17.959	- / 32.238	- / 31.163	- / 2.392	- / -	- / -	- / 112.907	
Subtotal: Mode 5	- / 5.849	- / 10.232	- / 13.074	- / 17.959	- / -	- / 17.959	- / 32.238	- / 31.163	- / 2.392	- / -	- / -	- / 112.907	
Subtotal: Procurement, All Modification Items	- / 5.849	- / 10.232	- / 13.074	- / 17.959	- / -	- / 17.959	- / 32.238	- / 31.163	- / 2.392	- / -	- / -	- / 112.907	
Support (All Modification Items)													
Change Orders	- / -	- / -	- / 1.254	- / 1.890	- / -	- / 1.890	- / 2.538	- / 3.064	- / 0.562	- / 0.346	- / -	- / 9.654	
SIM/TRAINER	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.300	- / -	- / -	- / -	- / -	- / 3.300	
PMA - Other Gov't Costs	- / -	- / -	- / 2.605	- / 2.868	- / -	- / 2.868	- / 3.314	- / 3.687	- / 2.110	- / 1.499	- / -	- / 16.083	
GFP	- / 5.275	- / -	- / 5.133	- / 4.677	- / -	- / 4.677	- / 4.936	- / 5.772	- / 2.155	- / -	- / -	- / 27.948	
OTHER GOVT	- / 0.428	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.333	- / -	- / 4.761	
Subtotal: Support	- / 5.703	- / -	- / 8.992	- / 9.435	- / -	- / 9.435	- / 14.088	- / 12.523	- / 4.827	- / 6.178	- / -	- / 61.746	
Installation													
Modification Item 1 of 1: Mode 5	2 / 1.771	38 / 1.447	13 / 1.232	37 / 3.629	- / -	37 / 3.629	33 / 3.564	33 / 3.945	33 / 4.086	33 / 4.087	- / -	222 / 23.761	
Subtotal: Installation	2 / 1.771	38 / 1.447	13 / 1.232	37 / 3.629	- / -	37 / 3.629	33 / 3.564	33 / 3.945	33 / 4.086	33 / 4.087	- / -	222 / 23.761	
Total													
Total Cost (Procurement + Support + Installation)	13.323	11.679	23.298	31.023	-	31.023	49.890	47.631	11.305	10.265	-	198.414	

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Exhibit P-3a, Individual Modification: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 1508 / IFF GATM Mode 5

Modification Item 1 of 1: Mode 5

Manufacturer Information

Manufacturer Name: The Boeing Company	Manufacturer Location: Long Beach, CA
Administrative Leadtime (in Months): 5	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 1.771	38 / 1.447	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 3.218
FY 2014	- / -	- / -	13 / 1.232	20 / 1.962	- / -	20 / 1.962	- / -	- / -	- / -	- / -	- / -	33 / 3.194
FY 2015	- / -	- / -	- / -	17 / 1.667	- / -	17 / 1.667	16 / 1.728	- / -	- / -	- / -	- / -	33 / 3.395
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	17 / 1.836	16 / 1.913	- / -	- / -	- / -	33 / 3.749
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 2.032	16 / 1.981	- / -	- / -	33 / 4.013
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 2.105	16 / 1.982	- / -	33 / 4.087
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 2.105	- / -	17 / 2.105
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 1.771	38 / 1.447	13 / 1.232	37 / 3.629	- / -	37 / 3.629	33 / 3.564	33 / 3.945	33 / 4.086	33 / 4.087	- / -	222 / 23.761

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	2	10	10	9	9	4	3	3	3	10	9	9	9	9	8	8	8	9	8	8	8	9	8	8	8	9	8	8	8	-	222
Out	2	-	10	10	9	9	4	3	3	3	10	9	9	9	9	8	8	8	9	8	8	8	9	8	8	8	9	8	8	8	222

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Air Force							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3				P-1 Line Item Number / Title: C01700 / C-17A				Modification Number / Title: 9739 / ILS Identification and Flight Control Computer Updates				

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	5.655	3.815	11.990	9.855	-	9.855	9.066	-	-	-	-	40.381
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	5.655	3.815	11.990	9.855	-	9.855	9.066	-	-	-	-	40.381
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	5.655	3.815	11.990	9.855	-	9.855	9.066	-	-	-	-	40.381
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This modification corrects the aircraft deficiency that precludes the crew from positively identifying the Morse Code identifiers broadcast by Instrument Landing System/Microwave Landing System (ILS/MLS) ground stations.

Also, the required software changes in the legacy & modernized Flight Control Computers (FCCs) for the Vertical Navigation capability (Baro-VNAV) will be included in the Block 19 FCCs as deactivated code.

The Precision Landing System Receiver (PLSR) modification is a hardware change to provide the required audio signal to an existing connector pin that is currently unused.

The program is scheduled to complete all 191 installs by FY18. ILS installs will be accomplished on 31 aircraft in conjunction with the Block 13 to 17 retrofit. The remainder of the kits will be installed in conjunction with the IFF GATM Mode 5 modification program.

The modifications are performed at Boeing San Antonio and Warner Robins Depots.

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

Milestone/Development Status

Development Complete

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	3.815	11.990	9.855	-	9.855	9.066	-	-	-

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Exhibit P-3a, Individual Modification: PB 2016 Air Force						Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3			P-1 Line Item Number / Title: C01700 / C-17A			Modification Number / Title: 9739 / ILS Identification and Flight Control Computer Updates			

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	3.815	11.990	9.855	-	9.855	9.066	-	-	-

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Exhibit P-3a, Individual Modification: PB 2016 Air Force										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3					P-1 Line Item Number / Title: C01700 / C-17A					Modification Number / Title: 9739 / ILS Identification and Flight Control Computer Updates			
Models of Systems Affected: C-17				Modification Type: Capability Improvement				Related RDT&E PEs: 0401130F					
Financial Plan	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
RDT&E PE #													
0401130F	- / 27.889	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.889	
Procurement													
<i>Modification Item 1 of 1: PLSR</i>													
B Kits													
Recurring													
PLSR:EQUIPMENT Group B (Active)	80 / 5.655	68 / 3.815	72 / 8.342	66 / 8.369	- / -	66 / 8.369	96 / 8.169	- / -	- / -	- / -	- / -	382 / 34.350	
<i>Subtotal: Recurring</i>	- / 5.655	- / 3.815	- / 8.342	- / 8.369	- / -	- / 8.369	- / 8.169	- / -	- / -	- / -	- / -	- / 34.350	
<i>Subtotal: PLSR</i>	- / 5.655	- / 3.815	- / 8.342	- / 8.369	- / -	- / 8.369	- / 8.169	- / -	- / -	- / -	- / -	- / 34.350	
<i>Subtotal: Procurement, All Modification Items</i>	- / 5.655	- / 3.815	- / 8.342	- / 8.369	- / -	- / 8.369	- / 8.169	- / -	- / -	- / -	- / -	- / 34.350	
Support (All Modification Items)													
GFP	- / -	- / -	- / 2.984	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.984	
PMA - Contractor Services	- / -	- / -	- / 0.664	- / 1.486	- / -	- / 1.486	- / 0.897	- / -	- / -	- / -	- / -	- / 3.047	
<i>Subtotal: Support</i>	- / -	- / -	- / 3.648	- / 1.486	- / -	- / 1.486	- / 0.897	- / -	- / -	- / -	- / -	- / 6.031	
Installation													
<i>Modification Item 1 of 1: PLSR</i>	2 / 0.000	78 / -	68 / -	72 / -	- / -	72 / -	66 / -	96 / -	- / -	- / -	- / -	382 / -	
<i>Subtotal: Installation</i>	2 / -	78 / -	68 / -	72 / -	- / -	72 / -	66 / -	96 / -	- / -	- / -	- / -	382 / -	
Total													
Total Cost (Procurement + Support + Installation)	5.655	3.815	11.990	9.855	-	9.855	9.066	-	-	-	-	40.381	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Air Force		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 3010F / 05 / 3	P-1 Line Item Number / Title: C01700 / C-17A	Modification Number / Title: 9739 / ILS Identification and Flight Control Computer Updates

Modification Item 1 of 1: PLSR

Manufacturer Information

Manufacturer Name: BAE Systems Information and Electronic System Integration				Manufacturer Location: Wayne NJ			
Administrative Leadtime (in Months): 6				Production Leadtime (in Months): 6			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Apr 2014	Apr 2015	Apr 2016	Apr 2017			
Delivery Dates	Oct 2014	Oct 2015	Oct 2016	Oct 2017			

Installation Information

Method of Implementation: Contractor Facility

Installation Cost	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	2 / 0.000	78 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 0.000
FY 2014	- / -	- / -	68 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	68 / -
FY 2015	- / -	- / -	- / -	72 / -	- / -	72 / -	- / -	- / -	- / -	- / -	- / -	72 / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	66 / -	- / -	- / -	- / -	- / -	66 / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	96 / -	- / -	- / -	- / -	96 / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.000	78 / -	68 / -	72 / -	- / -	72 / -	66 / -	96 / -	- / -	- / -	- / -	382 / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
In	2	20	20	20	18	17	17	17	17	18	18	18	18	16	16	17	17	24	24	24	24	-	-	-	-	-	-	-	-	-	-	-	-	-	382
Out	2	20	20	20	18	17	17	17	17	18	18	18	18	16	16	17	17	24	24	24	24	-	-	-	-	-	-	-	-	-	-	-	-	-	382