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**Department of Defense
Fiscal Year (FY) 2016 President's Budget Submission**

February 2015



Army

*Justification Book of
Aircraft Procurement, Army*

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The following Justification Books were prepared at a cost of \$1,187,353.84: Aircraft (ACFT), Missile (MSLS), Weapons & Tracked Combat Vehicles (WTCV), Ammunition (AMMO), Other Procurement Army (OPA) 1 - Tactical & Support Vehicles, Other Procurement Army (OPA) 2 - Communications & Electronics, Other Procurement Army (OPA) 3 & 4 - Other Support Equipment & Spares, Research, Development, Test and Evaluation (RDTE) for: Budget Activity 1, Budget Activity 2, Budget Activity 3, Budget Activity 4, Budget Activity 5A, Budget Activity 5B, Budget Activity 6, and Budget Activity 7.

AIRCRAFT PROCUREMENT, ARMY

Appropriation Language

For construction, procurement, and modification of aircraft and equipment, including armor and armament, specialized ground handling equipment, and training devices, spare parts, and accessories therefore; specialized equipment; expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents and transportation of things, \$5,689,357,000 Base and 164,987,000 OCO to remain available for obligations until September 30, 2019.

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Department of the Army
 FY 2016 President's Budget
 Exhibit P-1 FY 2016 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

15 Jan 2015

Appropriation -----	FY 2014 (Base & OCO) -----	FY 2015 Base Enacted -----	FY 2015 OCO Enacted -----	FY 2015 Total Enacted -----
Aircraft Procurement, Army	5,082,533	5,216,225	196,200	5,412,425
Total Department of the Army	5,082,533	5,216,225	196,200	5,412,425

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Department of the Army
FY 2016 President's Budget
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Total Obligational Authority
(Dollars in Thousands)

15 Jan 2015

Appropriation -----	FY 2016 Base -----	FY 2016 OCO -----	FY 2016 Total -----
Aircraft Procurement, Army	5,689,357	164,987	5,854,344
Total Department of the Army	5,689,357	164,987	5,854,344

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Department of the Army
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 (Dollars in Thousands)

15 Jan 2015

Appropriation: Aircraft Procurement, Army

Budget Activity	FY 2014 (Base & OCO)	FY 2015 Base Enacted	FY 2015 OCO Enacted	FY 2015 Total Enacted
01. Aircraft	3,956,708	3,965,716	196,200	4,161,916
02. Modification of Aircraft	772,161	877,724		877,724
04. Support Equipment and Facilities	353,664	372,785		372,785
Total Aircraft Procurement, Army	5,082,533	5,216,225	196,200	5,412,425

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Department of the Army
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 (Dollars in Thousands)

15 Jan 2015

Appropriation: Aircraft Procurement, Army

Budget Activity -----	FY 2016 Base -----	FY 2016 OCO -----	FY 2016 Total -----
01. Aircraft	4,560,479	116,037	4,676,516
02. Modification of Aircraft	770,745	48,950	819,695
04. Support Equipment and Facilities	358,133		358,133
Total Aircraft Procurement, Army	5,689,357	164,987	5,854,344

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Department of the Army
 FY 2016 President's Budget
 Exhibit P-1 FY 2016 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

15 Jan 2015

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO)		FY 2015 Base Enacted		FY 2015 OCO Enacted		FY 2015 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Aircraft											

Fixed Wing											
1	Saturn Arch (MIP)	A		64,000							U
2	Utility F/W Aircraft		2	18,052	1	10,787			1	10,787	U
3	Aerial Common Sensor (ACS) (MIP)	A	4	54,700	8	129,890	2	36,000	10	165,890	U
4	MQ-1 UAV	A	15	500,547	19	238,081			19	238,081	U
5	RQ-11 (RAVEN)	A		10,372		3,964				3,964	U
Rotary											
6	Helicopter, Light Utility (LUH)	A	37	256,434	55	401,617			55	401,617	U
7	AH-64 Apache Block IIIA Reman Less: Advance Procurement (PY)	A	42	(715,511) (-113,842)	29	(722,940) (-150,931)	6	(144,000)	35	(866,940) (-150,931)	U U
				601,669		572,009		144,000		716,009	
8	AH-64 Apache Block IIIA Reman Advance Procurement (CY)			150,931		157,338				157,338	U
9	AH-64 Apache Block IIIB New Build Less: Advance Procurement (PY)	A	4	(298,999) (-156,999)							U U
				142,000							
10	Kiowa Warrior WRA	A	9								U
11	UH-60 Blackhawk M Model (MYP) Less: Advance Procurement (PY)		70	(1,212,916) (-99,940)	86	(1,452,834) (-112,807)	1	(16,200)	87	(1,469,034) (-112,807)	U U
				1,112,976		1,340,027		16,200		1,356,227	
12	UH-60 Blackhawk M Model (MYP) Advance Procurement (CY)			116,001		117,138				117,138	U

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Department of the Army
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 Exhibit P-1 FY 2016 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

15 Jan 2015

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2016 Base		FY 2016 OCO		FY 2016 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
Budget Activity 01: Aircraft									
Fixed Wing									
1	Saturn Arch (MIP)	A							U
2	Utility F/W Aircraft			879			879		U
3	Aerial Common Sensor (ACS) (MIP)	A			5	99,500	5	99,500	U
4	MQ-1 UAV	A	15	260,436	2	16,537	17	276,973	U
5	RQ-11 (RAVEN)	A							U
Rotary									
6	Helicopter, Light Utility (LUH)	A	28	187,177			28	187,177	U
7	AH-64 Apache Block IIIA Reman	A	64	(1,325,799)			64	(1,325,799)	U
	Less: Advance Procurement (PY)			(-157,338)				(-157,338)	U
				1,168,461				1,168,461	
8	AH-64 Apache Block IIIA Reman Advance Procurement (CY)			209,930				209,930	U
9	AH-64 Apache Block IIIB New Build	A							U
	Less: Advance Procurement (PY)								U
10	Kiowa Warrior WRA	A							U
11	UH-60 Blackhawk M Model (MYP)		94	(1,556,277)			94	(1,556,277)	U
	Less: Advance Procurement (PY)			(-120,332)				(-120,332)	U
				1,435,945				1,435,945	
12	UH-60 Blackhawk M Model (MYP) Advance Procurement (CY)			127,079				127,079	U

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Department of the Army
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 Exhibit P-1 FY 2016 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

15 Jan 2015

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO)		FY 2015 Base Enacted		FY 2015 OCO Enacted		FY 2015 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
13	UH-60 Black Hawk A and L Models	A									U
14	CH-47 Helicopter	A	39	(915,791)	32	(982,880)			32	(982,880)	U
	Less: Advance Procurement (PY)			(-77,141)		(-90,376)				(-90,376)	U
				838,650		892,504				892,504	
15	CH-47 Helicopter										
	Advance Procurement (CY)			90,376		102,361				102,361	U
Total Aircraft				3,956,708		3,965,716		196,200		4,161,916	

Budget Activity 02: Modification of Aircraft

Modification of Aircraft

16	MQ-1 Payload (MIP)	A				25,313				25,313	U
17	MQ-1 Payload - UAS	A		97,781							U
18	Guardrail Mods (MIP)			10,262		14,182				14,182	U
19	Multi Sensor ABN Recon (MIP)			10,467		131,892				131,892	U
20	AH-64 Mods	A		48,487		181,869				181,869	U
21	CH-47 Cargo Helicopter Mods (MYP)			91,064		32,092				32,092	U
22	GRCS SEMA Mods (MIP)	A									U
23	ARL SEMA Mods (MIP)	A									U
24	EMARSS SEMA Mods (MIP)	A									U
25	Utility/Cargo Airplane Mods			11,500		15,029				15,029	U
26	Utility Helicopter Mods			88,095		76,515				76,515	U
27	Kiowa Mods Warrior			108,282							U
28	Network and Mission Plan	A		59,326		105,380				105,380	U

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Department of the Army
 FY 2016 President's Budget
 Exhibit P-1 FY 2016 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

15 Jan 2015

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2016 Base		FY 2016 OCO		FY 2016 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
13	UH-60 Black Hawk A and L Models	A	40	46,641			40	46,641	U
14	CH-47 Helicopter	A	39	(1,126,948)			39	(1,126,948)	U
	Less: Advance Procurement (PY)			(-102,361)				(-102,361)	U
				1,024,587				1,024,587	
15	CH-47 Helicopter								
	Advance Procurement (CY)			99,344				99,344	U
Total Aircraft				4,560,479		116,037		4,676,516	

Budget Activity 02: Modification of Aircraft

Modification of Aircraft

16	MQ-1 Payload (MIP)	A		97,543		8,700		106,243	U
17	MQ-1 Payload - UAS	A							U
18	Guardrail Mods (MIP)								U
19	Multi Sensor ABN Recon (MIP)			95,725				95,725	U
20	AH-64 Mods	A		116,153				116,153	U
21	CH-47 Cargo Helicopter Mods (MYP)			86,330				86,330	U
22	GRCS SEMA Mods (MIP)	A		4,019				4,019	U
23	ARL SEMA Mods (MIP)	A		16,302		32,000		48,302	U
24	EMARSS SEMA Mods (MIP)	A		13,669				13,669	U
25	Utility/Cargo Airplane Mods			16,166				16,166	U
26	Utility Helicopter Mods			13,793				13,793	U
27	Kiowa Mods Warrior								U
28	Network and Mission Plan	A		112,807				112,807	U

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Department of the Army
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 (Dollars in Thousands)

15 Jan 2015

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2014 (Base & OCO)		FY 2015 Base Enacted		FY 2015 OCO Enacted		FY 2015 Total Enacted		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
29	Comms, Nav Surveillance	A		74,613		115,795				115,795	U
30	GATM Rollup	A		50,382		54,277				54,277	U
31	RQ-7 UAV MODS	A		121,902		125,380				125,380	U
Total Modification of Aircraft				772,161		877,724				877,724	
Budget Activity 04: Support Equipment and Facilities											
Ground Support Avionics											
32	Aircraft Survivability Equipment			47,610		89,059				89,059	U
33	Survivability CM			5,700		7,800				7,800	U
34	CMWS	A		103,021		60,401				60,401	U
Other Support											
35	Avionics Support Equipment			6,809		6,847				6,847	U
36	Common Ground Equipment			45,999		29,231				29,231	U
37	Aircrew Integrated Systems			45,841		48,081				48,081	U
38	Air Traffic Control			94,192		127,232				127,232	U
39	Industrial Facilities			1,615		1,203				1,203	U
40	Launcher, 2.75 Rocket		273	2,877		2,931				2,931	U
Total Support Equipment and Facilities				353,664		372,785				372,785	
Total Aircraft Procurement, Army				5,082,533		5,216,225		196,200		5,412,425	

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Department of the Army
 FY 2016 President's Budget
 Exhibit P-1 FY 2016 President's Budget
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 (Dollars in Thousands)

15 Jan 2015

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2016 Base		FY 2016 OCO		FY 2016 Total		S e c
			Quantity	Cost	Quantity	Cost	Quantity	Cost	
29	Comms, Nav Surveillance	A		82,904			82,904		U
30	GATM Rollup	A		33,890			33,890		U
31	RQ-7 UAV MODS	A		81,444		8,250	89,694		U
Total Modification of Aircraft				770,745		48,950	819,695		
Budget Activity 04: Support Equipment and Facilities									
Ground Support Avionics									
32	Aircraft Survivability Equipment			56,215			56,215		U
33	Survivability CM			8,917			8,917		U
34	CMWS	A		78,348			78,348		U
Other Support									
35	Avionics Support Equipment			6,937			6,937		U
36	Common Ground Equipment			64,867			64,867		U
37	Aircrew Integrated Systems			44,085			44,085		U
38	Air Traffic Control			94,545			94,545		U
39	Industrial Facilities			1,207			1,207		U
40	Launcher, 2.75 Rocket			3,012			3,012		U
Total Support Equipment and Facilities				358,133			358,133		
Total Aircraft Procurement, Army				5,689,357		164,987	5,854,344		

P-1C1: FY 2016 President's Budget (Published Version of PB Position), as of January 15, 2015 at 15:21:57

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18	02	10	AZ2001	Multi Sensor ABN Recon (MIP).....	143
19	02	10	AA6605	AH-64 MODS.....	159
20	02	10	AA0252	CH-47 Cargo Helicopter Mods (MYP).....	188
21	02	10	A02111	GRCS SEMA Mods (MIP).....	209
22	02	10	A02110	ARL SEMA Mods (MIP).....	214
23	02	10	A02112	EMARSS SEMA Mods (MIP).....	219
24	02	10	AA0270	Utility/Cargo Airplane Mods.....	224
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36	04	30	AZ3110	Aircrew Integrated Systems.....	342
37	04	30	AA0050	Air Traffic Control.....	350
38	04	30	AZ3300	Industrial Facilities.....	355
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AH-64 MODS	AA6605	19	02	10.....	159
ARL SEMA Mods (MIP)	A02110	22	02	10.....	214
Aerial Common Sensor (ACS) (MIP)	A02005	3	01	10.....	15
Air Traffic Control	AA0050	37	04	30.....	350
Aircraft Survivability Equipment	AZ3504	31	04	10.....	303
Aircrew Integrated Systems	AZ3110	36	04	30.....	342
Avionics Support Equipment	AZ3000	34	04	30.....	331
CH-47 Cargo Helicopter Mods (MYP)	AA0252	20	02	10.....	188
CH-47 Helicopter	A05101	13	01	20.....	90
CH-47 Helicopter, Advance Procurement	A05101	14	01	20.....	104
CMWS	AZ3517	33	04	10.....	322
Common Ground Equipment	AZ3100	35	04	30.....	338
Comms, Nav Surveillance	AA0723	28	02	10.....	257
EMARSS SEMA Mods (MIP)	A02112	23	02	10.....	219

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Guardrail Mods (MIP)	AZ2000	17	02	10.....	136
Helicopter, Light Utility (LUH)	A05001	6	01	20.....	41
Industrial Facilities	AZ3300	38	04	30.....	355
Kiowa Mods Warrior	AZ2200	26	02	10.....	242
Launcher, 2.75 Rocket	A50100	39	04	30.....	358
MQ-1 Payload (MIP)	A01001	15	02	10.....	108
MQ-1 Payload - UAS	A00020	16	02	10.....	127
MQ-1 UAV	A00005	4	01	10.....	25
Multi Sensor ABN Recon (MIP)	AZ2001	18	02	10.....	143
Network And Mission Plan	AA0712	27	02	10.....	244
RQ-11 (RAVEN)	A00010	5	01	10.....	37
RQ-7 UAV MODS	A00018	30	02	10.....	292
SATURN ARCH (MIP)	A11301	1	01	10.....	1
Survivability CM	AZ3507	32	04	10.....	319
UH-60 BLACK HAWK A AND L MODELS	A05009	12	01	20.....	84
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Line Item Title	Line Item Number	Line #	BA	BSA	Page
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Exhibit P-40, Budget Line Item Justification: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing **P-1 Line Item Number / Title:** A11301 / SATURN ARCH (MIP)

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

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>	-	2	-	-	-	-	-	-	-	-	-	2
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	24.000	-	-	-	-	-	-	-	-	-	24.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	24.000	-	-	-	-	-	-	-	-	-	24.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	24.000	-	-	-	-	-	-	-	-	-	24.000

(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 Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	12,000.000	-	-	-	-	-	-	-	-	-	12,000.000

Description:

The Saturn Arch and Desert Owl aircraft are Airborne Intelligence, Surveillance and Reconnaissance (AISR) aircraft that support a suite of imaging sensors designed to provide persistent surveillance to accomplish day and night image collection and exploitation of Improvised Explosive Devices (IEDs) in designated Named Areas of Interest (NAIs).

The Saturn Arch and Desert Owl systems are under the operational control of the Task Force Observe, Detect, Identify, and Neutralize (TF ODIN), Afghanistan.

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army									
Quantity	2	-	-	-	-	-	-	-	-
Total Obligation Authority	24.000	-	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	2	-	-	-	-	-	-	-	-
Total Obligation Authority	24.000	-	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing **P-1 Line Item Number / Title:** A11301 / SATURN ARCH (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
A11301 / SATURN ARCH (MIP)	P-5, P-5a, P-21		- / -	2 / 24.000	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / -	2 / 24.000	- / -	- / -	- / -	- / -

*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:
 No FY16 Funds requested.

"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."

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A11301 / SATURN ARCH (MIP)	Item Number / Title [DODIC]: A11301 / SATURN ARCH (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	-	2	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	24.000	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	24.000	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	24.000	-	-	-	-

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	12,000.000	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Fixed Wing Aircraft Procurement ^(†)	-	-	-	12,000.000	2	24.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Recurring Cost	-	-	-	-	-	24.000	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Flyaway Cost	-	-	-	-	-	24.000	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	12,000.000	2	24.000	-	-	-	-	-	-	-	-	-	-	-	-

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	2	-	-	-	-
Total Obligation Authority	24.000	-	-	-	-
Total: Secondary Distribution	2	-	-	-	-
Total Obligation Authority	24.000	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A11301 / SATURN ARCH (MIP)	Item Number / Title [DODIC]: A11301 / SATURN ARCH (MIP)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Fixed Wing Aircraft Procurement ^(†)		2014	TBD / TBD	C / FFP	Redstone Arsenal, AL	Jun 2014	Jun 2014	2	12,000.000			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A11301 / SATURN ARCH (MIP)	Item Number / Title [DODIC]: A11301 / SATURN ARCH (MIP)
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MFR Ref #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	TBD - TBD	1	5	5	-	5	-	5	-	-	-	-

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

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing **P-1 Line Item Number / Title:** A11300 / Utility F/W Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
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>)	31	2	1	-	-	-	3	7	7	9	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	281.137	18.052	10.787	0.879	-	0.879	58.213	118.271	108.114	135.298	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	281.137	18.052	10.787	0.879	-	0.879	58.213	118.271	108.114	135.298	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	281.137	18.052	10.787	0.879	-	0.879	58.213	118.271	108.114	135.298	Continuing	Continuing

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	9,068.935	9,026.000	10,787.000	-	-	-	19,404.333	16,895.857	15,444.857	15,033.111	Continuing	Continuing

Description:

The budget line funds the acquisition of Army fixed wing aircraft to include the procurement of fixed wing aircraft to support Special Electronic Mission Aircraft (SEMA), Mission Support Aircraft (MSA), Transport and Operational Support Airlift (OSA) requirements, training, and other fixed wing support aircraft. This budget line also provides for the acquisition of new commercial-off-the-shelf (COTS), modified COTS, and non-developmental fixed wing aircraft systems including used aircraft systems.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	2	1	-	-	-	3	7	7	9
	Total Obligation Authority	18.052	10.787	0.879	-	0.879	58.213	118.271	108.114	135.298
Total: Secondary Distribution	Quantity	2	1	-	-	-	3	7	7	9
	Total Obligation Authority	18.052	10.787	0.879	-	0.879	58.213	118.271	108.114	135.298

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing **P-1 Line Item Number / Title:** A11300 / Utility F/W Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
A11300 / Utility F/W Aircraft	P-5, P-5a, P-21		31 / 281.137	2 / 18.052	1 / 10.787	- / 0.879	- / -	- / 0.879
Total Gross/Weapon System Cost			31 / 281.137	2 / 18.052	1 / 10.787	- / 0.879	- / -	- / 0.879

*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:
 FY16 Base procurement dollars in the amount of \$0.879 million is for Program Management Support of PM Fixed Wing at Redstone Arsenal AL.

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.

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A11300 / Utility F/W Aircraft	Item Number / Title [DODIC]: A11300 / Utility F/W Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	31	2	1	-	-	-
Gross/Weapon System Cost (\$ in Millions)	281.137	18.052	10.787	0.879	-	0.879
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	281.137	18.052	10.787	0.879	-	0.879
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	281.137	18.052	10.787	0.879	-	0.879

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	9,068.935	9,026.000	10,787.000	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Fixed Wing Aircraft Procurement ^(†)	7,358.581	31	228.116	5,576.000	2	11.152	8,989.000	1	8.989	-	-	-	-	-	-	-	-	-
Engineering Change Proposal/Modification	-	-	2.261	-	-	0.072	-	-	0.349	-	-	-	-	-	-	-	-	-
Spares	-	-	12.897	-	-	-	-	-	0.984	-	-	-	-	-	-	-	-	-
Test & Evaluation	-	-	1.746	-	-	-	-	-	0.019	-	-	-	-	-	-	-	-	-
Program Management	-	-	26.914	-	-	6.828	-	-	-	-	-	0.879	-	-	-	-	-	0.879
Publication Tech Data	-	-	6.464	-	-	-	-	-	0.446	-	-	-	-	-	-	-	-	-
Airworthiness Release	-	-	2.739	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>281.137</i>	<i>-</i>	<i>-</i>	<i>18.052</i>	<i>-</i>	<i>-</i>	<i>10.787</i>	<i>-</i>	<i>-</i>	<i>0.879</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.879</i>
<i>Subtotal: Flyaway Cost</i>	<i>-</i>	<i>-</i>	<i>281.137</i>	<i>-</i>	<i>-</i>	<i>18.052</i>	<i>-</i>	<i>-</i>	<i>10.787</i>	<i>-</i>	<i>-</i>	<i>0.879</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.879</i>
Gross/Weapon System Cost	9,068.935	31	281.137	9,026.000	2	18.052	10,787.000	1	10.787	-	-	0.879	-	-	-	-	-	0.879

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	2	1	-	-	-
Total Obligation Authority	18.052	10.787	0.879	-	0.879
Total: Secondary Distribution	2	1	-	-	-
Total Obligation Authority	18.052	10.787	0.879	-	0.879

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A11300 / Utility F/W Aircraft	Item Number / Title [DODIC]: A11300 / Utility F/W Aircraft
ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:	
(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A11300 / Utility F/W Aircraft	Item Number / Title [DODIC]: A11300 / Utility F/W Aircraft
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Fixed Wing Aircraft Procurement ^(†)		2014	Beechcraft / Wichita	C / FFP	Wright Patterson Airforce Base	Aug 2014	Jul 2015	2	5,576.000			
Fixed Wing Aircraft Procurement ^(†)		2015	TBD / TBD	C / FFP	Redstone Arsenal, AL	Mar 2015	Nov 2015	1	8,989.000	N		May 2014

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A11300 / Utility F/W Aircraft	Item Number / Title [DODIC]: A11300 / Utility F/W Aircraft
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015															
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L		
Fixed Wing Aircraft Procurement																																	
Prior Years Deliveries: 31																																	
	1	2014	ARMY	2	-	2												A	-	-	-	-	-	-	-	-	-	-	-	2	-		
	2	2015	ARMY	1	-	1																											1
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A11300 / Utility F/W Aircraft	Item Number / Title [DODIC]: A11300 / Utility F/W Aircraft
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2016													Fiscal Year 2017													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
Fixed Wing Aircraft Procurement																															
Prior Years Deliveries: 31																															
	1	2014	ARMY	2	2	-																							-		
	2	2015	ARMY	1	-	1	-		1																				-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A11300 / Utility F/W Aircraft	Item Number / Title [DODIC]: A11300 / Utility F/W Aircraft
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MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Beechcraft - Wichita	1	6	18	-	12	11	23	-	3	11	14
2	TBD - TBD	1	6	18	-	12	8	20	-	3	8	11

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

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

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing **P-1 Line Item Number / Title:** A02005 / Aerial Common Sensor (ACS) (MIP)

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0605626A

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 (Units in Each)	-	4	10	-	5	5	-	-	-	-	-	19
Gross/Weapon System Cost (\$ in Millions)	-	54.700	165.890	-	99.500	99.500	-	-	-	-	-	320.090
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	54.700	165.890	-	99.500	99.500	-	-	-	-	-	320.090
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	54.700	165.890	-	99.500	99.500	-	-	-	-	-	320.090

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	13,675.000	16,589.000	-	19,900.000	19,900.000	-	-	-	-	-	16,846.842

Description:

The Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS) is the Army's next generation C-12 based, direct support, manned airborne intelligence collection, processing, and targeting support system. EMARSS provides a persistent capability to detect, locate, classify/identify, and track surface targets with a high degree of timeliness and accuracy. EMARSS aircraft will be assigned to the U.S. Army Intelligence and Security Command's (INSCOM) Aerial Exploitation Battalions (AEB). EMARSS is an improvement over the existing Medium Altitude Reconnaissance and Surveillance System Quick Reaction Capability (MARSS QRC) in that it hosts an on board Distributed Common Ground System - Army (DCGS-A) capability, improved satellite communications, improved aircraft performance, and life cycle logistics sustainment capability.

EMARSS will consist of a commercial derivative aircraft equipped with an Electro-optical/Infrared (EO/IR) sensor with Full Motion Video (FMV), a Communications Intelligence (COMINT) collection system, an Aerial Precision Geolocation (APG) system, tactical line-of-site (LOS) and beyond line-of-site (BLOS) communications suite, two DCGS-A enabled operator workstations and a self-protection suite. EMARSS is built to allow future capabilities to be integrated on platform with the addition of a third carry-on workstation.

EMARSS will operate in direct support of tactical missions. EMARSS, integrating elements of the DCGS-A, will provide efficient response to Combat Forces with Intelligence, Surveillance and Reconnaissance (ISR) tasking.

The Army Acquisition Objective for EMARSS is 36 systems, with an Army Procurement Objective of 24, to include the following variants: EMARSS-G (Constant Hawk & TACOP LiDAR); EMARSS-V (VaDER); EMARSS-M (Liberty Project Aircraft (LPA)); and EMARSS-S (Engineering and Manufacturing Development (EMD)) systems.

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army									
Quantity	4	10	-	5	5	-	-	-	-
Total Obligation Authority	54.700	165.890	-	99.500	99.500	-	-	-	-
Total:									
Quantity	4	10	-	5	5	-	-	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing **P-1 Line Item Number / Title:** A02005 / Aerial Common Sensor (ACS) (MIP)

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0605626A

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Secondary Distribution	Total Obligation Authority	54.700	165.890	-	99.500	99.500	-	-	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing **P-1 Line Item Number / Title:** A02005 / Aerial Common Sensor (ACS) (MIP)

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0605626A

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)
A02005 / Aerial Common Sensor (ACS) (MIP)	P-5, P-5a, P-21		- / -	4 / 54.700	10 / 165.890	- / -	5 / 99.500	5 / 99.500
Total Gross/Weapon System Cost			- / -	4 / 54.700	10 / 165.890	- / -	5 / 99.500	5 / 99.500

*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:

There is no FY 2016 Base Funding on this line. FY 2016 OCO procurement funding in the amount of \$99,500 million procures 4 EMARSS-G and 1 EMARSS-M Variant.

FY 2014 \$28 million OCO procured one EMARSS-V variant; however, the funding level noted on the P-40 does not include this \$28M. The actual FY14 quantity is 2. PB14 requested \$142.1M to procure 4 EMARSS systems. The Appropriations Committees reduced the amount to \$84.7M and 2 EMARSS systems. Current plan for FY14 is 2 systems.

P40 quantities should read as follows: FY14 Base qty 1, FY14 OCO qty 1, FY15 Base qty 8, FY15 OCO qty 2, and FY16 OCO qty 5; however, the Program Office currently does plan to procure 11 aircraft in FY15 as noted in the Cost Element section of the P-5.

For FY 2016 forward, the overall EMARSS efforts are found in the following two lines; AZ2054 EMARSS Payloads (Project Manager Sensors - Aerial Intelligence (PM SAI)) and A02112 EMARSS SEMA (Project Manager Fixed Wing (PM FW)). Separate funding lines support the Army Acquisition Executive's directive, codified in the October 28, 2011 memorandum, to assign overall acquisition lead for manned airborne Intelligence systems to Program Executive Officer for Aviation (PEO-AVN); and overall sensor, processing, exploitation, and dissemination responsibilities to Program Executive Officer for Intelligence, Electronic Warfare, and Sensors (PEO-IEWS).

The purpose of AZ2054 is to procure, upgrade, test and integrate sensors; communications architecture for sensor information exploitation and dissemination; test, nonrecurring engineering, and integration in support of the following EMARSS variants: EMARSS-G (Constant Hawk & TACOP LiDAR); EMARSS-V (VaDER); EMARSS-M (Liberty Project Aircraft (LPA)); and EMARSS-S (Engineering and Manufacturing Development (EMD) systems).

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.

All COMPO 1 Active

UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A02005 / Aerial Common Sensor (ACS) (MIP)	Item Number / Title [DODIC]: A02005 / Aerial Common Sensor (ACS) (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	-	4	10	-	5	5
Gross/Weapon System Cost (\$ in Millions)	-	54.700	165.890	-	99.500	99.500
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	54.700	165.890	-	99.500	99.500
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	54.700	165.890	-	99.500	99.500

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	13,675.000	16,589.000	-	19,900.000	19,900.000

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
ACFT & MEP Integ for QRC to POR Mods(G) ^(f)	-	-	-	27,000.000	1	27.000	23,000.000	1	23.000	-	-	-	14,975.000	4	59.900	14,975.000	4	59.900
ACFT & MEP Testing (G)	-	-	-	-	-	2.500	-	-	2.500	-	-	-	-	-	1.200	-	-	1.200
ACFT & MEP Integ for QRC to POR Mods(M) ^(f)	-	-	-	-	-	-	13,000.000	6	78.000	-	-	-	13,500.000	1	13.500	13,500.000	1	13.500
ACFT & MEP Testing (M)	-	-	-	-	-	-	-	-	2.500	-	-	-	-	-	0.800	-	-	0.800
VADER 5 Radar Hardware	-	-	-	-	-	6.000	-	-	-	-	-	-	-	-	-	-	-	-
ECPs - MEP/PED	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000	-	-	1.000
Productization of EMARSS-S ^(f)	-	-	-	-	-	-	1,500.000	4	6.000	-	-	-	-	-	-	-	-	-
MEP/PED Reset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.900	-	-	6.900
Subtotal: Recurring Cost	-	-	-	-	-	35.500	-	-	113.000	-	-	-	-	-	83.300	-	-	83.300
Non Recurring Cost																		
Non-Recurring Engineering	-	-	-	-	-	5.000	-	-	2.000	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost	-	-	-	-	-	5.000	-	-	2.000	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Army													Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10						P-1 Line Item Number / Title: A02005 / Aerial Common Sensor (ACS) (MIP)						Item Number / Title [DODIC]: A02005 / Aerial Common Sensor (ACS) (MIP)						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.																		
Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	40.500	-	-	115.000	-	-	-	-	-	83.300	-	-	83.300
Hardware Cost																		
Recurring Cost																		
Government Furnished Equipment (GFE)	-	-	-	-	-	-	-	-	13.500	-	-	-	-	-	-	-	-	-
Support Equipment	-	-	-	-	-	1.000	-	-	3.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	1.000	-	-	16.500	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	1.000	-	-	16.500	-	-	-	-	-	-	-	-	-
Software Cost																		
Recurring Cost																		
Software Licenses	-	-	-	-	-	3.000	-	-	3.200	-	-	-	-	-	3.300	-	-	3.300
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	3.000	-	-	3.200	-	-	-	-	-	3.300	-	-	3.300
<i>Subtotal: Software Cost</i>	-	-	-	-	-	3.000	-	-	3.200	-	-	-	-	-	3.300	-	-	3.300
Logistics Cost																		
Recurring Cost																		
Initial Spares & Repairs	-	-	-	-	-	2.000	-	-	7.700	-	-	-	-	-	3.700	-	-	3.700
Data	-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	1.000	-	-	1.000
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	2.500	-	-	7.700	-	-	-	-	-	4.700	-	-	4.700
Non Recurring Cost																		
Training Spt / Manuals / NET	-	-	-	-	-	1.000	-	-	2.000	-	-	-	-	-	6.200	-	-	6.200
Facilitization	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	1.000	-	-	3.000	-	-	-	-	-	6.200	-	-	6.200
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	3.500	-	-	10.700	-	-	-	-	-	10.900	-	-	10.900
Support Cost																		
PMO / SETA Support	-	-	-	-	-	4.200	-	-	9.500	-	-	-	-	-	-	-	-	-
Interim Contractor Logistics Support	-	-	-	-	-	-	-	-	8.390	-	-	-	-	-	-	-	-	-
Engineering & Test Support	-	-	-	-	-	2.500	-	-	2.600	-	-	-	-	-	2.000	-	-	2.000
<i>Subtotal: Support Cost</i>	-	-	-	-	-	6.700	-	-	20.490	-	-	-	-	-	2.000	-	-	2.000
Gross/Weapon System Cost	-	-	-	13,675.000	4	54.700	16,589.000	10	165.890	-	-	-	19,900.000	5	99.500	19,900.000	5	99.500

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A02005 / Aerial Common Sensor (ACS) (MIP)	Item Number / Title [DODIC]: A02005 / Aerial Common Sensor (ACS) (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	4	10	-	5	5
	Total Obligation Authority	54.700	165.890	-	99.500	99.500
Total:	Quantity	4	10	-	5	5
Secondary Distribution	Total Obligation Authority	54.700	165.890	-	99.500	99.500

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10			P-1 Line Item Number / Title: A02005 / Aerial Common Sensor (ACS) (MIP)				Item Number / Title [DODIC]: A02005 / Aerial Common Sensor (ACS) (MIP)					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
ACFT & MEP Integ for QRC to POR Mods(G) ^(†)		2014	TBS / TBS	SS / CPFF	ACC-APG	Feb 2015	Aug 2016	1	27,000.000			
ACFT & MEP Integ for QRC to POR Mods(G) ^(†)		2015	TBS / TBS	SS / CPFF	ACC-APG	Apr 2015	Oct 2016	1	23,000.000			
ACFT & MEP Integ for QRC to POR Mods(G) ^(†)	✓	2016	TBS / TBS	SS / TBD	ACC-Redstone	Jan 2016	Jun 2017	4	14,975.000			
ACFT & MEP Integ for QRC to POR Mods(M)		2015	TBS / TBS	C / CPFF	ACC-Redstone	Apr 2015	Oct 2016	6	13,000.000			
ACFT & MEP Integ for QRC to POR Mods(M) ^(†)	✓	2016	TBS / TBS	C / CPFF	ACC-Redstone	Jan 2016	Jun 2017	1	13,500.000			
Productization of EMARSS-S ^(†)		2015	TBS / TBS	C / TBD	ACC-APG	Sep 2015	Jan 2016	4	1,500.000			

^(†) indicates the presence of a P-21

Remarks:
Multiple entries above per fiscal year are representative of separate acquisition and contracting efforts for Aircraft & Integration (PEO AVN/PM FW) and MEP & PED (PEO IEWS/PM SAI).

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Exhibit P-21, Production Schedule: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10		P-1 Line Item Number / Title: A02005 / Aerial Common Sensor (ACS) (MIP)
		Item Number / Title [DODIC]: A02005 / Aerial Common Sensor (ACS) (MIP)

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017												Fiscal Year 2018														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
ACFT & MEP Integ for QRC to POR Mods(G)																															
	1	2014	ARMY	1	1	-																									
	1	2015	ARMY	1	-	1	1																								
✓	1	2016	ARMY	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ACFT & MEP Integ for QRC to POR Mods(M)																															
✓	2	2016	ARMY	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Productization of EMARSS-S																															
	3	2015	ARMY	4	4	-																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10		P-1 Line Item Number / Title: A02005 / Aerial Common Sensor (ACS) (MIP)
		Item Number / Title [DODIC]: A02005 / Aerial Common Sensor (ACS) (MIP)

MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	TBS - TBS	1	1	10	-	-	-	-	-	-	-	-	-
2	TBS - TBS	1	1	10	-	-	-	-	-	-	-	-	-
3	TBS - TBS	1	1	10	-	-	-	-	-	-	-	-	-

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

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

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing **P-1 Line Item Number / Title:** A00005 / MQ-1 UAV

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0305204A, 0305219A

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>	99	23	19	15	2	17	-	-	-	-	-	158
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,823.156	500.547	238.081	260.436	16.537	276.973	55.886	10.890	-	-	-	2,905.533
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	1,823.156	500.547	238.081	260.436	16.537	276.973	55.886	10.890	-	-	-	2,905.533
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	1,823.156	500.547	238.081	260.436	16.537	276.973	55.886	10.890	-	-	-	2,905.533

(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 Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	18,415.717	21,762.913	12,530.579	17,362.400	8,268.500	16,292.529	-	-	-	-	-	18,389.449

Description:

Gray Eagle provides Reconnaissance, Surveillance, Target Acquisition (RSTA), command and control, communications relay, Signals Intelligence (SIGINIT), battle damage assessment, and manned-unmanned teaming capability. Gray Eagle is a dedicated, assured, multi-mission Unmanned Aircraft System (UAS) fielded to all ten Army Divisions to support the commander's combat operations. The Army Special Operations Aviation Command (ARSOAC) Gray Eagle units and Aerial Exploitation Battalions (AEB) Gray Eagle units are self-contained Intelligence, Surveillance and Reconnaissance capabilities teamed with organic Processing, Exploitation and Dissemination that are a global rapidly deployable force and contribute to the Department of Defense Global ISR mission. A Gray Eagle unit consists of either 9 or 12 Aircraft, Universal Ground Control equipment, Standard Equipment Package and Payloads to include: Electro-Optical/Infrared Laser Range Finder/Laser Designator, synthetic aperture radar/ground moving target indicator, communication relay, and up to 4 HELLFIRE Missiles.

The Gray Eagle extended range modification is a Congressional add that transitions the current Gray Eagle to a new configuration extending the range and endurance of the aircraft.

This budget line also includes procurement of, Ground Based Sense and Avoid (GBSAA) hardware, training devices, and new equipment training and fielding. GBSAA provides alternate means of compliance to FAA See and Avoid (SAA) regulations required for access to the National Airspace System (NAS).

AAO is 167.

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army									
Quantity	23	19	15	2	17	-	-	-	-
Total Obligation Authority	500.547	238.081	260.436	16.537	276.973	55.886	10.890	-	-
Total: Secondary Distribution	23	19	15	2	17	-	-	-	-
Total Obligation Authority	500.547	238.081	260.436	16.537	276.973	55.886	10.890	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing **P-1 Line Item Number / Title:** A00005 / MQ-1 UAV

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0305204A, 0305219A

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)					
A00005 / MQ-1 UAV	P-5, P-5a, P-21		99 / 1,823.156	23 / 500.547	19 / 238.081	15 / 260.436	2 / 16.537	17 / 276.973
Total Gross/Weapon System Cost			99 / 1,823.156	23 / 500.547	19 / 238.081	15 / 260.436	2 / 16.537	17 / 276.973

*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:
 FY2016 Gray Eagle Base funding of \$260.439 million procures 15 Aircraft with associated ground equipment, New Equipment Training (NET), and Interim Contractor Support.

 Gray Eagle enables MUM-T capability as an alternate means of performing the scout mission under the Aviation Restructure Initiative (ARI).

 FY2016 OCO funding of \$16.537 million procures 2 Attrition Aircraft.

 All COMPO 1 Active

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Exhibit P-5, Cost Analysis: PB 2016 Army					Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10			P-1 Line Item Number / Title: A00005 / MQ-1 UAV			Item Number / Title [DODIC]: A00005 / MQ-1 UAV				
ID Code (A=Service Ready, B=Not Service Ready) :					MDAP/MAIS Code:					
Resource Summary			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total		
Procurement Quantity (Units in Each)			99	23	19	15	2	17		
Gross/Weapon System Cost (\$ in Millions)			1,823.156	500.547	238.081	260.436	16.537	276.973		
Less PY Advance Procurement (\$ in Millions)			-	-	-	-	-	-		
Net Procurement (P1) (\$ in Millions)			1,823.156	500.547	238.081	260.436	16.537	276.973		
Plus CY Advance Procurement (\$ in Millions)			-	-	-	-	-	-		
Total Obligation Authority (\$ in Millions)			1,823.156	500.547	238.081	260.436	16.537	276.973		
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>										
Initial Spares (\$ in Millions)			-	-	-	-	-	-		
Gross/Weapon System Unit Cost (\$ in Thousands)			18,415.717	21,762.913	12,530.579	17,362.400	8,268.500	16,292.529		

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Aircraft ^(†)	4,457.293	99	441.272	4,705.870	23	108.235	4,975.895	19	94.542	5,075.000	15	76.125	5,075.000	2	10.150	5,075.000	17	86.275
Portable/Mobile Ground Control Station	775.500	10	7.755	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Control Station (GCS)	3,172.400	10	31.724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Universal Ground Control Station (UGCS)	3,277.943	35	114.728	4,266.500	10	42.665	-	-	-	4,483.500	6	26.901	-	-	-	4,483.500	6	26.901
Ground Data Terminal (GDT)	1,229.071	14	17.207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Universal Ground Data Terminal (UGDT)	1,404.756	45	63.214	1,972.333	3	5.917	-	-	-	1,304.556	9	11.741	-	-	-	1,304.556	9	11.741
Portable Ground Data Terminal (PGDT)	379.250	4	1.517	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Automatic Take-Off & Landing Sys (ATLS)	869.500	26	22.607	1,601.000	7	11.207	-	-	-	-	-	-	-	-	-	-	-	-
Satellite Ground Data Terminal (SGDT)	1,786.370	27	48.232	2,584.600	5	12.923	-	-	-	-	-	-	-	-	-	-	-	-
Ground Support Equipment Kits (GSE)	2,456.938	16	39.311	2,735.000	2	5.470	-	-	-	-	-	6.381	-	-	-	-	-	6.381
SATCOM Airborne Data Terminal(SADT)	504.626	91	45.921	1,812.087	23	41.678	1,897.842	19	36.059	1,902.200	15	28.533	1,902.000	2	3.804	1,902.176	17	32.337
Mobile GCS (MGCS)	-	-	-	1,127.889	18	20.302	-	-	-	3,651.667	3	10.955	-	-	-	3,651.667	3	10.955

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A00005 / MQ-1 UAV	Item Number / Title [DODIC]: A00005 / MQ-1 UAV

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
USGDT Kits	-	-	-	-	-	-	-	-	-	983.267	15	14.749	-	-	-	983.267	15	14.749
Extended Range Modification	-	-	-	-	-	-	-	-	49.000	-	-	-	-	-	-	-	-	-
Tower Trailers	-	-	15.353	-	-	1.393	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares	12,153.267	15	182.299	6,194.333	3	18.583	-	-	-	-	-	21.918	-	-	-	-	-	21.918
Battle Loss Payloads (OCO)	-	-	-	-	-	6.452	-	-	-	-	-	-	-	-	2.583	-	-	2.583
Engineering Change Order	-	-	103.226	-	-	115.391	-	-	0.376	-	-	-	-	-	-	-	-	-
GA Prog Mgmt/ Integration/MMF	-	-	148.058	-	-	18.762	-	-	-	-	-	-	-	-	-	-	-	-
Training Devices - UMS	-	-	65.274	-	-	16.057	-	-	-	-	-	-	-	-	-	-	-	-
Data (Fielding Manuals)	-	-	2.486	-	-	-	-	-	1.503	-	-	1.332	-	-	-	-	-	1.332
Interim Contractor Logistics Support	-	-	-	-	-	7.041	-	-	11.760	-	-	19.648	-	-	-	-	-	19.648
Air Beam Shelter	-	-	6.403	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Critical Safety Item	-	-	0.093	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware-Retrofit Platoon Configuration	-	-	104.316	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Recurring Production	-	-	20.587	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Government Furnished Equipment (GFE)	-	-	25.771	-	-	8.242	-	-	6.172	-	-	5.709	-	-	-	-	-	5.709
Program Management / OGA	-	-	67.891	-	-	3.127	-	-	2.582	-	-	2.493	-	-	-	-	-	2.493
Engineering Support	-	-	40.748	-	-	9.382	-	-	7.747	-	-	7.478	-	-	-	-	-	7.478
Logistics Support	-	-	36.220	-	-	8.339	-	-	6.887	-	-	6.646	-	-	-	-	-	6.646
Universal Mission Simulators Spares	-	-	0.254	-	-	0.184	-	-	-	-	-	0.153	-	-	-	-	-	0.153
First Destination Transportation	-	-	0.305	-	-	0.137	-	-	0.951	-	-	1.249	-	-	-	-	-	1.249
Software Maintenance	-	-	17.728	-	-	5.415	-	-	-	-	-	-	-	-	-	-	-	-
NET Training	-	-	30.188	-	-	19.464	-	-	18.121	-	-	17.924	-	-	-	-	-	17.924
Test and Evaluation	-	-	40.442	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Modifications	-	-	36.455	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Army												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10						P-1 Line Item Number / Title: A00005 / MQ-1 UAV						Item Number / Title [DODIC]: A00005 / MQ-1 UAV					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:							

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Ground Base Sense and Avoid (GBSAA)	-	-	45.571	-	-	14.181	-	-	2.381	-	-	0.500	-	-	-	-	-	0.500
<i>Subtotal: Recurring Cost</i>	-	-	1,823.156	-	-	500.547	-	-	238.081	-	-	260.435	-	-	16.537	-	-	276.972
<i>Subtotal: Flyaway Cost</i>	-	-	1,823.156	-	-	500.547	-	-	238.081	-	-	260.435	-	-	16.537	-	-	276.972
Gross/Weapon System Cost	18,415.717	99	1,823.156	21,762.913	23	500.547	12,530.579	19	238.081	17,362.400	15	260.436	8,268.500	2	16.537	16,292.529	17	276.973

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	23	19	15	2	17
	Total Obligation Authority	500.547	238.081	260.436	16.537	276.973
Total:	Quantity	23	19	15	2	17
Secondary Distribution	Total Obligation Authority	500.547	238.081	260.436	16.537	276.973

(t) indicates the presence of a P-5a

UNCLASSIFIED

Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A00005 / MQ-1 UAV	Item Number / Title [DODIC]: A00005 / MQ-1 UAV
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Aircraft ^(†)		2011	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FPIF	AMCOM	Apr 2011	Jan 2013	29	4,046.000	Y	Dec 2010	Dec 2010
Aircraft ^(†)		2012	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FPIF	AMCOM	Jul 2012	Apr 2014	29	4,206.000	Y	Dec 2011	Dec 2011
Aircraft ^(†)		2013	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FFP	AMCOM	Sep 2013	May 2015	15	5,130.733	Y	May 2012	May 2012
Aircraft ^(†)		2014	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FFP	AMCOM	Feb 2015	Jun 2016	23	4,705.870	Y	Nov 2013	Nov 2013
Aircraft ^(†)		2015	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FFP	AMCOM	Jun 2015	Jun 2017	19	4,975.895	Y	Mar 2015	Mar 2015
Aircraft ^(†)		2016	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FFP	AMCOM	Jun 2016	Jun 2018	17	5,075.000	Y	Dec 2015	Dec 2015

^(†) indicates the presence of a P-21

Remarks:
FY2012 deliveries are based upon actual contract.

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A00005 / MQ-1 UAV	Item Number / Title [DODIC]: A00005 / MQ-1 UAV
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Cost Elements <i>(Units in Each)</i>					Fiscal Year 2013												Fiscal Year 2014																	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013												Calendar Year 2014															
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L			
Aircraft																																		
Prior Years Deliveries: 26																																		
1		2011	ARMY	29	-	29	-	-	-	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	-		
1		2012	ARMY	29	-	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	3	2	16
1		2013	ARMY (I)	15	-	15																											15	
1		2014	ARMY (II)	23	-	23																											23	
1		2015	ARMY (III)	19	-	19																											19	
1		2016	ARMY (IV)	17	-	17																											17	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10 **P-1 Line Item Number / Title:** A00005 / MQ-1 UAV **Item Number / Title [DODIC]:** A00005 / MQ-1 UAV

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2017												Fiscal Year 2018														
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Aircraft																															
Prior Years Deliveries: 26																															
1		2011	ARMY	29	29	-																							-		
1		2012	ARMY	29	29	-																							-		
1		2013	ARMY (I)	15	15	-																							-		
1		2014	ARMY (II)	23	7	16	2	2	2	2	2	2	2																-		
1		2015	ARMY (III)	19	-	19	-	-	-	-	-	-	-	1	1	1	1	1	2	2	2	2	2	2	2	2			-		
1		2016	ARMY (IV)	17	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	13		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A00005 / MQ-1 UAV	Item Number / Title [DODIC]: A00005 / MQ-1 UAV
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MFR Ref #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	GENERAL ATOMICS / ASI - SAN DIEGO	12	24	60	8	7	23	30	8	8	24	32

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

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

Service/Agency Suffixes:

- (I) BASE
- (II) BASE
- (III) BASE
- (IV) BASE

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing **P-1 Line Item Number / Title:** A00010 / RQ-11 (RAVEN)

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0305204A, 0305232A

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>	2,421	-	-	-	-	-	-	-	-	-	-	2,421
Gross/Weapon System Cost <i>(\$ in Millions)</i>	233.633	10.372	3.964	-	-	-	-	-	-	-	-	247.969
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	233.633	10.372	3.964	-	-	-	-	-	-	-	-	247.969
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	233.633	10.372	3.964	-	-	-	-	-	-	-	-	247.969

(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 Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	96.503	-	-	-	-	-	-	-	-	-	-	102.424

Description:

The Small Unmanned Aircraft System (SUAS) provides the battalion and below ground maneuver elements with an organic, on-demand, asset to develop situational awareness, enhance force protection, and secure routes, points, and areas. The system provides the small unit commander an organic and responsive tactical Reconnaissance, Surveillance, and Target Acquisition capability through the ability to view real-time Full Motion Video and sensor data via the system ground control stations. Other compatible receivers, such as the One System Remote Video Terminal and appropriately equipped manned platforms, may also receive the SUAS products. The SUAS includes a combination of three separate hand-launched mission specific configurable aircraft that do not require an improved launch/recovery location. The ground control equipment includes a hand controller interoperable with each of the system's aircraft. The SUAS employs a gimbaled payload that combines daytime color and infrared sensors with a laser illuminator. This equipment is fully transportable in or on rucksack type packs that are organic to the unit. In FY14 a total of 374 gimbaled payloads were procured. FY15 includes fielding and training of previously procured gimbaled payloads.

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	10.372	3.964	-	-	-	-	-	-	-
Total:									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	10.372	3.964	-	-	-	-	-	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing **P-1 Line Item Number / Title:** A00010 / RQ-11 (RAVEN)

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0305204A, 0305232A

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)					
A00010 / RQ-11 (RAVEN)	P-5		2,421 / 233.633	- / 10.372	- / 3.964	- / -	- / -	- / -
Total Gross/Weapon System Cost			2,421 / 233.633	- / 10.372	- / 3.964	- / -	- / -	- / -

*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:

Justification: No program funding in FY2016.

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A00010 / RQ-11 (RAVEN)	Item Number / Title [DODIC]: A00010 / RQ-11 (RAVEN)

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	
Procurement Quantity (Units in Each)	2,421	-	-	-	-	-	
Gross/Weapon System Cost (\$ in Millions)	233.633	10.372	3.964	-	-	-	
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	
Net Procurement (P1) (\$ in Millions)	233.633	10.372	3.964	-	-	-	
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	
Total Obligation Authority (\$ in Millions)	233.633	10.372	3.964	-	-	-	
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (\$ in Thousands)	96.503	-	-	-	-	-	

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Air Vehicles	26.979	2,421	65.316	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares Package (ISP)	-	-	16.735	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other System Hardware	-	-	22.620	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Digital Data Link Retrofit	59.972	930	55.774	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gimbal Payload Retrofit	17.871	1,422	25.413	17.626	374	6.592	-	-	-	-	-	-	-	-	-	-	-	-
Operator Training	-	-	16.118	-	-	-	-	-	1.200	-	-	-	-	-	-	-	-	-
Government Furnished Equipment (GFE)	-	-	6.937	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management	-	-	10.305	-	-	1.144	-	-	1.189	-	-	-	-	-	-	-	-	-
Technical	-	-	7.354	-	-	1.406	-	-	0.940	-	-	-	-	-	-	-	-	-
Logistics	-	-	7.062	-	-	1.230	-	-	0.635	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	233.634	-	-	10.372	-	-	3.964	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	233.634	-	-	10.372	-	-	3.964	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	96.503	2,421	233.633	-	-	10.372	-	-	3.964	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 10	P-1 Line Item Number / Title: A00010 / RQ-11 (RAVEN)	Item Number / Title [DODIC]: A00010 / RQ-11 (RAVEN)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	10.372	3.964	-	-	-
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	10.372	3.964	-	-	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05001 / Helicopter, Light Utility (LUH)

ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:						Other Related Program Elements:					
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 (Units in Each)	305	37	55	28	-	28	-	-	-	-	-	425
Gross/Weapon System Cost (\$ in Millions)	1,879.049	256.434	401.617	187.177	-	187.177	-	-	-	-	-	2,724.277
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,879.049	256.434	401.617	187.177	-	187.177	-	-	-	-	-	2,724.277
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,879.049	256.434	401.617	187.177	-	187.177	-	-	-	-	-	2,724.277

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	6,684.893	-	6,684.893	-	-	-	-	-	6,410.064

Description:

The UH-72A platform will provide the flexibility to respond to Homeland Security (HLS) requirements, conduct civil search and rescue operations, support damage assessment, support test and training centers, perform generating force missions, augment the HH-60 Medical Evacuation (MEDEVAC) aircraft, and provide support to CONUS counterdrug operations. The UH-72A will conduct general support utility helicopter missions and execute tasks as part of an integrated effort with other joint services, government agencies, and non-governmental organizations. The UH-72A provides time-sensitive transport of supplies or key personnel, air mobility to assist civil authorities through the execution of search and rescue or disaster relief operations, advanced warning/detection of external threats to include threats to our borders, augmentation of air ambulance capabilities, and limited command and control operations in the conduct of HLS. As part of the Aviation Restructure Initiative (ARI) the UH-72A will become the primary training aircraft at the US Army Aviation Center of Excellence (USAACE) in Ft. Rucker. The UH-72A program is currently in full rate production.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	27	55	28	-	28	-	-	-	-
	Total Obligation Authority	181.434	401.617	187.177	-	187.177	-	-	-	-
ANG	Quantity	10	-	-	-	-	-	-	-	-
	Total Obligation Authority	75.000	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	37	55	28	-	28	-	-	-	-
	Total Obligation Authority	256.434	401.617	187.177	-	187.177	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05001 / Helicopter, Light Utility (LUH)

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

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)
A05001 / Helicopter, Light Utility (LUH)	P-5, P-5a, P-21		305 / 1,879.049	37 / 256.434	55 / 401.617	28 / 187.177	- / -	28 / 187.177
Total Gross/Weapon System Cost			305 / 1,879.049	37 / 256.434	55 / 401.617	28 / 187.177	- / -	28 / 187.177

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)
A05001 / Helicopter, Light Utility (LUH)	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	425 / 2,724.277
Total Gross/Weapon System Cost			- / -	425 / 2,724.277				

*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:
 FY16 Base procurement dollars in the amount of \$187.177 million support aircraft procurement, fielding, program management for one year, and production modifications for UH-72A aircraft.

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.

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: A05001 / Helicopter, Light Utility (LUH)	Item Number / Title [DODIC]: A05001 / Helicopter, Light Utility (LUH)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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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>	305	37	55	28	-	28	-	-	-	-	-	425
Gross/Weapon System Cost <i>(\$ in Millions)</i>	1,879.049	256.434	401.617	187.177	-	187.177	-	-	-	-	-	2,724.277
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	1,879.049	256.434	401.617	187.177	-	187.177	-	-	-	-	-	2,724.277
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	1,879.049	256.434	401.617	187.177	-	187.177	-	-	-	-	-	2,724.277

(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 Thousands)</i>	-	-	-	6,684.893	-	6,684.893	-	-	-	-	-	6,410.064

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Airframes/Includes non-recurring ⁽¹⁾	5,094.226	305	1,553.739	5,240.162	37	193.886	5,500.000	55	302.500	5,757.036	28	161.197	-	-	-	5,757.036	28	161.197
B Kits (MEDEVAC & Hoist)	200.449	78	15.635	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Changes	-	-	156.890	-	-	36.894	-	-	87.649	-	-	14.700	-	-	-	-	-	14.700
System Engineering & Program Management	-	-	52.265	-	-	11.106	-	-	10.918	-	-	11.000	-	-	-	-	-	11.000
Systems Test & Evaluation	-	-	2.054	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Services	-	-	13.980	-	-	7.087	-	-	-	-	-	-	-	-	-	-	-	-
Procedural Trainers	2,989.000	2	5.978	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	78.484	-	-	7.461	-	-	0.550	-	-	0.280	-	-	-	-	-	0.280
Other program Requirements	-	-	0.024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>1,879.049</i>	<i>-</i>	<i>-</i>	<i>256.434</i>	<i>-</i>	<i>-</i>	<i>401.617</i>	<i>-</i>	<i>-</i>	<i>187.177</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>187.177</i>
<i>Subtotal: Flyaway Cost</i>	<i>-</i>	<i>-</i>	<i>1,879.049</i>	<i>-</i>	<i>-</i>	<i>256.434</i>	<i>-</i>	<i>-</i>	<i>401.617</i>	<i>-</i>	<i>-</i>	<i>187.177</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>187.177</i>
Gross/Weapon System Cost	-	305	1,879.049	-	37	256.434	-	55	401.617	6,684.893	28	187.177	-	-	-	6,684.893	28	187.177

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Exhibit P-5, Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: A05001 / Helicopter, Light Utility (LUH)	Item Number / Title [DODIC]: A05001 / Helicopter, Light Utility (LUH)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Airframes/Includes non-recurring ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,203.111	425	2,211.322
B Kits (MEDEVAC & Hoist)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200.449	78	15.635
Engineering Changes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	296.133
System Engineering & Program Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	85.289
Systems Test & Evaluation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.054
Engineering Services	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.067
Procedural Trainers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,989.000	2	5.978
Fielding	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86.775
Other program Requirements	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.024
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,724.277
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,724.277
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,410.064	425	2,724.277

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	27	55	28	-	28	-	-	-	-
	Total Obligation Authority	181.434	401.617	187.177	-	187.177	-	-	-	-
ANG	Quantity	10	-	-	-	-	-	-	-	-
	Total Obligation Authority	75.000	-	-	-	-	-	-	-	-
Total:	Quantity	37	55	28	-	28	-	-	-	-
Secondary Distribution	Total Obligation Authority	256.434	401.617	187.177	-	187.177	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: A05001 / Helicopter, Light Utility (LUH)	Item Number / Title [DODIC]: A05001 / Helicopter, Light Utility (LUH)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Airframes/Includes non-recurring ^(†)		2012	EADS-NA / Columbus MS	C / FFP	EADS-NA Columbus, MS	Dec 2011	Sep 2012	39	5,375.000			
Airframes/Includes non-recurring ^(†)		2013	EADS-NA / Columbus MS	C / FFP	EADS-NA Columbus, MS	Dec 2012	Sep 2013	35	5,090.000			
Airframes/Includes non-recurring ^(†)		2014	EADS-NA / Columbus MS	C / FFP	EADS-NA Columbus, MS	Dec 2013	Sep 2014	37	5,240.162			
Airframes/Includes non-recurring ^(†)		2015	EADS-NA / Columbus MS	C / FFP	EADS-NA Columbus, MS	Dec 2014	Dec 2015	55	5,500.000			
Airframes/Includes non-recurring ^(†)		2016	Airbus Helicopter Inc / Grand Prairie TX	C / FFP	AHI Grand Prairie, TX	Dec 2015	Dec 2016	28	5,757.036			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20 **P-1 Line Item Number / Title:** A05001 / Helicopter, Light Utility (LUH) **Item Number / Title [DODIC]:** A05001 / Helicopter, Light Utility (LUH)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2012												Fiscal Year 2013														
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	Calendar Year 2012												Calendar Year 2013													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
Airframes/Includes non-recurring																																
Prior Years Deliveries: 231																																
1		2012	ARMY (V)	39	-	39			A -	-	-	-	-	-	-	-	-	4	2	3	3	3	3	3	3	4	3	4	3	3	-	1
1		2013	ARMY (VI)	35	-	35															A -	-	-	-	-	-	-	-	-	-	3	32
1		2014	ARMY (VII)	37	-	37																										37
1		2015	ARMY (VIII)	55	-	55																										55
2		2016	ARMY (IX)	28	-	28																										28
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20 **P-1 Line Item Number / Title:** A05001 / Helicopter, Light Utility (LUH) **Item Number / Title [DODIC]:** A05001 / Helicopter, Light Utility (LUH)

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2016														Fiscal Year 2017																
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 5	BAL D U E A S O F 1 O C T	Calendar Year 2016														Calendar Year 2017												B A L	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
Airframes/Includes non-recurring																																		
Prior Years Deliveries: 231																																		
1		2012	ARMY (V)	39	39	-																							-					
1		2013	ARMY (VI)	35	35	-																							-					
1		2014	ARMY (VII)	37	29	8	2	2	3	1																			-					
1		2015	ARMY (VIII)	55	-	55	-	-	2	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	-					
2		2016	ARMY (IX)	28	-	28			A	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	3	3	6
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L			

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Exhibit P-21, Production Schedule: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: A05001 / Helicopter, Light Utility (LUH)	Item Number / Title [DODIC]: A05001 / Helicopter, Light Utility (LUH)
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MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	EADS-NA - Columbus MS	10	30	60	-	9	5	14	-	2	9	11
2	Airbus Helicopter Inc - Grand Prairie TX	10	30	60	-	9	5	14	-	2	9	11

Remarks:
 FY14 delivery schedule appears to extend beyond the 12 month period for the following reason:Yearly procurement consists of UH-72A and supplemental aircraft. Each of them are awarded on different contract line items. While each of these efforts deliver all of their aircraft within a 12 month span, they do not deliver within the same 12 month time period.

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

Service/Agency Suffixes:

- (V) 39
- (VI) 35
- (VII) 37
- (VIII) 55
- (IX) 28

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05111 / AH-64 Apache Block IIIA Reman

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
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 (Units in Each)	88	35	35	64	-	64	57	68	57	57	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	1,834.861	709.376	866.909	1,325.799	-	1,325.799	1,051.261	1,295.767	1,129.977	1,158.434	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	461.819	107.700	150.900	157.338	-	157.338	209.930	232.860	201.470	209.590	Continuing	Continuing
Net Procurement (P1) (\$ in Millions)	1,373.042	601.676	716.009	1,168.461	-	1,168.461	841.331	1,062.907	928.507	948.844	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	563.392	150.900	157.338	209.930	-	209.930	232.860	201.470	209.590	183.290	Continuing	Continuing
Total Obligation Authority (\$ in Millions)	1,936.434	752.576	873.347	1,378.391	-	1,378.391	1,074.191	1,264.377	1,138.097	1,132.134	Continuing	Continuing

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	20,850.693	20,267.886	24,768.829	20,715.609	-	20,715.609	18,443.175	19,055.397	19,824.158	20,323.404	Continuing	Continuing

Description:

AH-64E Apache Reman is an aircraft remanufacture program that refurbishes aging Longbow Apaches to extend their service life and upgrades the aircraft with updated technologies and performance enhancements to keep the Apache viable throughout its lifecycle. AH-64E Apache addresses obsolescence and reliability challenges as well as adds significant combat capability to the aircraft. Upgrades include: Unmanned Aircraft System (UAS) Level III-IV Control, Improved Situational Awareness, Upgraded Communications Suite, Improved Drive and Propulsion Systems, Improved Targeting Capability, Increased Computer Processing Capability and Speed, Improved Navigation Systems, and Improved Diagnostics and Maintainability. Upgrades are integrated as incremental block modifications. The program addresses operational shortfalls identified during real-world combat missions and meets Longbow Apache Capability Production Document (CPD) requirements for modernization. AH-64E aircraft entered the fleet in 2012.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	35	35	64	-	64	57	68	57	57
	Total Obligation Authority	752.576	873.347	1,378.391	-	1,378.391	1,074.191	1,264.377	1,138.097	1,132.134
Total:	Quantity	35	35	64	-	64	57	68	57	57
Secondary Distribution	Total Obligation Authority	752.576	873.347	1,378.391	-	1,378.391	1,074.191	1,264.377	1,138.097	1,132.134

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05111 / AH-64 Apache Block IIIA Reman

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
A05111 / AH-64 Apache Block IIIA Reman	P-5, P-5a, P-21		88 / 1,834.861	35 / 709.376	35 / 866.909	64 / 1,325.799	- / -	64 / 1,325.799
Total Gross/Weapon System Cost			88 / 1,834.861	35 / 709.376	35 / 866.909	64 / 1,325.799	- / -	64 / 1,325.799

*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:
 FY16 Base procurement dollars supports Advance Procurement (AP), Full Rate Production (FRP) of AH-64E Apache Reman aircraft and associated support. This program was restructured in 2010 from the single AH-64E Apache (A05111) into two separate programs, AH-64E Apache Reman (A05111) and AH-64E Apache New Build (A05133).
 The Apache Reman Program assumes a cost sharing with the New Build Program in accordance with the New Build APB.
 Funding goes to the Active component.
 The current AH-64E Apache Remanufacture Acquisition Program Baseline procurement objective is 634 aircraft.
 The Apache Reman Program quantities and associated funding assume approval for a Multi-year contract starting in FY2017, to continue through FY2021. The Apache Reman Program is planning continued production of aircraft through FY2025 to meet the Army Acquisition Objective (AAO).
 Currently the total lead time (time from when first materials must be committed to aircraft delivery) is in excess of 24 months. The Apache Project Management Office (PMO) and Boeing are working to reduce all lead times to within the 24 month timeframe. The Cost Assessment and Program Evaluation (CAPE) Independent Cost Estimate (ICE) utilized 18% to 22% for Advance Procurement (AP) for single year contracts. Each year's AP can be divided into 2 segments: 1) Government Furnished Equipment (GFE) such as engines, sensors and avionics and 2) Contractor Furnished Equipment (CFE). Material includes production components to support deliveries, provisioning material, pre-modification effort, and any potential termination liability costs. Long lead items include the Main Rotor Drive Shaft, Composite Main Rotor Blade, Improved Drive System, and Composite Stabilator.
 FY14 Procurement Quantity shows 42, but actual procurement quantity put on contract was 35 aircraft due to realizing savings and buying additional aircraft in FY13. FY17 Procurement Quantity shows 57 but does not reflect a reduction of 5 aircraft. Those 5 aircraft and funds were moved forward to FY16 due to a decision to accelerate those aircraft buys. This increased planned FY16 procurement quantity from 59 to 64 aircraft.

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: A05111 / AH-64 Apache Block IIIA Reman	Item Number / Title [DODIC]: A05111 / AH-64 Apache Block IIIA Reman

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	88	35	35	64	-	64
Gross/Weapon System Cost (\$ in Millions)	1,834.861	709.376	866.909	1,325.799	-	1,325.799
Less PY Advance Procurement (\$ in Millions)	461.819	107.700	150.900	157.338	-	157.338
Net Procurement (P1) (\$ in Millions)	1,373.042	601.676	716.009	1,168.461	-	1,168.461
Plus CY Advance Procurement (\$ in Millions)	563.392	150.900	157.338	209.930	-	209.930
Total Obligation Authority (\$ in Millions)	1,936.434	752.576	873.347	1,378.391	-	1,378.391

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	20,850.693	20,267.886	24,768.829	20,715.609	-	20,715.609

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
CFE ^(t)	14,766.886	88	1,299.486	15,570.229	35	544.958	16,657.486	35	583.012	13,140.000	64	840.960	-	-	-	13,140.000	64	840.960
GFE	4,866.193	88	428.225	2,463.543	35	86.224	6,035.857	35	211.255	6,089.266	64	389.713	-	-	-	6,089.266	64	389.713
Non-Recurring Costs	-	-	-	-	-	2.478	-	-	2.623	-	-	2.673	-	-	-	-	-	2.673
Support Equipment	-	-	35.717	-	-	18.765	-	-	11.563	-	-	16.202	-	-	-	-	-	16.202
Other Costs	-	-	33.400	-	-	42.334	-	-	48.094	-	-	57.982	-	-	-	-	-	57.982
Initial Spares	-	-	38.033	-	-	14.617	-	-	10.362	-	-	18.269	-	-	-	-	-	18.269
<i>Subtotal: Recurring Cost</i>	-	-	1,834.861	-	-	709.376	-	-	866.909	-	-	1,325.799	-	-	-	-	-	1,325.799
<i>Subtotal: Flyaway Cost</i>	-	-	1,834.861	-	-	709.376	-	-	866.909	-	-	1,325.799	-	-	-	-	-	1,325.799
Gross/Weapon System Cost	20,850.693	88	1,834.861	20,267.886	35	709.376	24,768.829	35	866.909	20,715.609	64	1,325.799	-	-	-	20,715.609	64	1,325.799

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	35	35	64	-	64
Total Obligation Authority	752.576	873.347	1,378.391	-	1,378.391
Total: Secondary Distribution	35	35	64	-	64
Total Obligation Authority	709.376	866.909	1,325.799	-	1,325.799

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20			P-1 Line Item Number / Title: A05111 / AH-64 Apache Block IIIA Reman				Item Number / Title [DODIC]: A05111 / AH-64 Apache Block IIIA Reman					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
CFE		2013	The Boeing Company / Mesa, AZ	SS / FPIF	AMCOM	Mar 2014	Mar 2014	37	12,353.906	Y		Jul 2012
CFE ^(†)		2014	The Boeing Company / Mesa, AZ	SS / FPIF	AMCOM	Mar 2014	Feb 2015	35	15,570.229	Y		Jul 2012
CFE ^(†)		2015	The Boeing Company / Mesa, AZ	SS / FPIF	AMCOM	Dec 2014	Jan 2016	35	16,657.486	Y		Jul 2013
CFE ^(†)		2016	The Boeing Company / Mesa, AZ	SS / FPIF	AMCOM	Dec 2015	Feb 2017	64	13,140.000	Y		Jul 2013

Advance Procurement												
Apache Block III - Reman		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Jan 2016	35	3,280.156			
Apache Block III - Reman		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2016	Jan 2017	35	3,280.156			
Apache Block III - Reman		2016	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2017	Jan 2017	64	3,280.156			

^(†) indicates the presence of a P-21

Remarks:

Major Contractor Furnished Equipment (CFE) cost drivers include the Fuselage, Transmission, and Composite Main Rotor Blades. Government Furnished Equipment (GFE) includes engines, Embedded Global Positioning System Inertial Navigation Systems (EGIs), Radar Electronics Unit (REU), Modernized Target Acquisition Designation System (MTADS)/Pilot Night Vision System (PNVS) and Unmanned Aerial Vehicle Tactical Common Data Link Assembly (UTA). Other Cost includes Support Equipment, Peculiar Ground Support (PGSE), and Government In-House.

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Exhibit P-21, Production Schedule: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20		P-1 Line Item Number / Title: A05111 / AH-64 Apache Block IIIA Reman
		Item Number / Title [DODIC]: A05111 / AH-64 Apache Block IIIA Reman

MFR Ref #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial			Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	The Boeing Company - Mesa, AZ	48	84	144	-	11	13	24	-	6	12	18

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

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

Service/Agency Suffixes:

- (X) BASE
- (XI) BASE
- (XII) BASE

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05111 / AH-64 Apache Block IIIA Reman

Program Elements for Code B Items: **Other Related Program Elements:**

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
Gross/Weapon System Cost (<i>\$ in Millions</i>)	563.392	150.900	157.338	209.930	-	209.930	232.860	201.470	209.590	183.290	Continuing	Continuing
Net Procurement (P1) (<i>\$ in Millions</i>)	563.392	150.900	157.338	209.930	-	209.930	232.860	201.470	209.590	183.290	Continuing	Continuing
Total Obligation Authority (<i>\$ in Millions</i>)	563.392	150.900	157.338	209.930	-	209.930	232.860	201.470	209.590	183.290	Continuing	Continuing

Description:

AH-64E Apache Reman is an aircraft remanufacture program that refurbishes aging Longbow Apaches to extend their service life and upgrades the aircraft with updated technologies and performance enhancements to keep the Apache viable throughout its lifecycle. AH-64E Apache addresses obsolescence and reliability challenges as well as adds significant combat capability to the aircraft. Upgrades include: Unmanned Aircraft System (UAS) Level III-IV Control, Improved Situational Awareness, Upgraded Communications Suite, Improved Drive and Propulsion Systems, Improved Targeting Capability, Increased Computer Processing Capability and Speed, Improved Navigation Systems, and Improved Diagnostics and Maintainability. Upgrades are integrated as incremental block modifications. The program addresses operational shortfalls identified during real-world combat missions and meets Longbow Apache Capability Production Document (CPD) requirements for modernization. AH-64E aircraft entered the fleet in 2012.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05111 / AH-64 Apache Block IIIA Reman

Program Elements for Code B Items: **Other Related Program Elements:**

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)
A05111 / AH-64 Apache Block IIIA Reman	P-10		- / 563.392	- / 150.900	- / 157.338	- / 209.930	- / -	- / 209.930
Total Gross/Weapon System Cost			- / 563.392	- / 150.900	- / 157.338	- / 209.930	- / -	- / 209.930

*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:
 FY16 Base procurement dollars supports Advance Procurement (AP), Full Rate Production (FRP) of AH-64E Apache Reman aircraft and associated support. This program was restructured in 2010 from the single AH-64E Apache (A05111) into two separate programs, AH-64E Apache Reman (A05111) and AH-64E Apache New Build (A05133).
 The Apache Reman Program assumes a cost sharing with the New Build Program in accordance with the New Build APB.
 Funding goes to the Active component.
 The current AH-64E Apache Remanufacture Acquisition Program Baseline procurement objective is 634 aircraft.
 The Apache Reman Program quantities and associated funding assume approval for a Multi-year contract starting in FY2017, to continue through FY2021. The Apache Reman Program is planning continued production of aircraft through FY2025 to meet the Army Acquisition Objective (AAO).
 Currently the total lead time (time from when first materials must be committed to aircraft delivery) is in excess of 24 months. The Apache Project Management Office (PMO) and Boeing are working to reduce all lead times to within the 24 month timeframe. The Cost Assessment and Program Evaluation (CAPE) Independent Cost Estimate (ICE) utilized 18% to 22% for Advance Procurement (AP) for single year contracts. Each year's AP can be divided into 2 segments: 1) Government Furnished Equipment (GFE) such as engines, sensors and avionics and 2) Contractor Furnished Equipment (CFE). Material includes production components to support deliveries, provisioning material, pre-modification effort, and any potential termination liability costs. Long lead items include the Main Rotor Drive Shaft, Composite Main Rotor Blade, Improved Drive System, and Composite Stabilator.

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2016 Army					Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20		P-1 Line Item Number / Title: A05111 / AH-64 Apache Block IIIA Reman			P-5 Number / Title: A05111 / AH-64 Apache Block IIIA Reman	
First System (2016) Award Date: July 2009		First System (2016) Completion Date: November 2011			Interval Between Systems: 1 Months	
AH-64 Apache Block IIIA Reman		Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2014 <i>(Each)</i>	FY 2015 <i>(Each)</i>	FY 2016 <i>(Each)</i>
Quantity			88	35	35	64
Cost Element		When Rqd <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2014 <i>(\$ M)</i>	FY 2015 <i>(\$ M)</i>	FY 2016 <i>(\$ M)</i>
Other						
Apache Block III - Reman ^(†)		12	563.392	150.900	157.338	209.930
<i>Total: Other</i>			563.392	150.900	157.338	209.930
Total Advance Procurement/Obligation Authority			563.392	150.900	157.338	209.930

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2016 Army						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20		P-1 Line Item Number / Title: A05111 / AH-64 Apache Block IIIA Reman			P-5 Number / Title: A05111 / AH-64 Apache Block IIIA Reman		
		FY 2016					
Cost Elements	QPA (Each)	Production Leadtime (Months)	Unit Cost (\$ K)	Contract Forecast Date	2016 Qty (Each)	For FY	Total Cost Request (\$ M)
Other							
Apache Block III - Reman ^(t)	-	-	3,280.156	Jan 2017	64		209.930
<i>Total: Other</i>							209.930
Total Advance Procurement/Obligation Authority							209.930

Description:
N/A

^(t) indicates the presence of Contract Data presented in the associated P-5 Item's P-5a exhibit.

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05133 / AH-64 Apache Block IIIB New Build

ID Code (A=Service Ready, B=Not Service Ready) :		Program Elements for Code B Items:					Other Related Program Elements:					
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>	13	4	-	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost <i>(\$ in Millions)</i>	396.786	142.000	-	-	-	-	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	71.586	-	-	-	-	-	-	-	-	-	Continuing	Continuing
Net Procurement (P1) <i>(\$ in Millions)</i>	325.200	142.000	-	-	-	-	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	325.200	142.000	-	-	-	-	-	-	-	-	Continuing	Continuing

(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 Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	30,522.000	35,500.000	-	-	-	-	-	-	-	-	Continuing	Continuing

Description:

The AH-64E Apache New Build aircraft is the same configuration as the AH-64E Remanufacture aircraft and procured using the same contracts. While the AH-64E Remanufacture program inducts aging AH-64D aircraft into a remanufacture production line, the AH-64E New Build program assembles all new components resulting in completely new aircraft at the end of the production process. These aircraft are procured at a significantly higher cost because they include all new components. A new build MTADS/PNVS system will be procured and provided with each aircraft. Other associated Government Furnished Equipment (GFE) such as the Fire Control Radar (FCR), Modernized Radar Frequency Interferometer (M-RFI), Radar Electronics Unit (REU), and Unmanned Aerial Vehicle Tactical Common Data Link Assembly (UTA) will be procured and provided in accordance with the basis of issue plan.

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05133 / AH-64 Apache Block IIIB New Build

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
A05133 / AH-64 Apache Block IIIB New Build	P-5, P-5a, P-21		13 / 396.786	4 / 142.000	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			13 / 396.786	4 / 142.000	- / -	- / -	- / -	- / -

*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:
 The current AH-64E New Build Acquisition Program Baseline (APB) procurement objective is 56 aircraft which includes an increase to the training base capacity and establishes a new heavy combat aviation brigade in the active component. The Army has moved the New Build Aircraft and associated Advanced Procurement outside the FYDP.

Additionally, the New Build program includes Congressionally appropriated Overseas Contingency Operations (OCO) funding to procure New Build aircraft to fill aircraft shortages due to combat attrition and training loss. OCO funding does not provide advance procurement for long lead items for these aircraft.

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: A05133 / AH-64 Apache Block IIIB New Build	Item Number / Title [DODIC]: A05133 / AH-64 Apache Block IIIB New Build

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	13	4	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	396.786	142.000	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	71.586	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	325.200	142.000	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	325.200	142.000	-	-	-	-

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	30,522.000	35,500.000	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
CFE ^(†)	16,537.300	10	165.373	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GFE	9,432.900	10	94.329	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support Equipment	-	-	21.881	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	8.704	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
War Replacement Aircraft ^(†)	35,500.000	3	106.500	35,500.000	4	142.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	396.787	-	-	142.000	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	396.787	-	-	142.000	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	30,522.000	13	396.786	35,500.000	4	142.000	-	-	-	-	-	-	-	-	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20			P-1 Line Item Number / Title: A05133 / AH-64 Apache Block IIIB New Build				Item Number / Title [DODIC]: A05133 / AH-64 Apache Block IIIB New Build					

Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
CFE ^(†)		2013	The Boeing Company / Mesa	SS / FPIF	AMCOM	Mar 2014	Sep 2014	10	14,055.667	Y		Jul 2012
CFE		2014	The Boeing Company / Mesa	SS / FPIF	AMCOM	Aug 2014	Nov 2016	-	-	Y		Jul 2012
War Replacement Aircraft ^(†)		2013	The Boeing Company / Mesa	SS / FPIF	AMCOM	Mar 2014	Jul 2015	3	35,500.000	Y		Jul 2012
War Replacement Aircraft ^(†)		2014	The Boeing Company / Mesa	SS / FPIF	AMCOM	Aug 2014	Nov 2016	4	35,500.000	Y		Jul 2012

^(†) indicates the presence of a P-21

Remarks:

Major Contractor Furnished Equipment (CFE) cost drivers include the Fuselage, Transmission, and Composite Main Rotor Blades. Government Furnished Equipment (GFE) includes engines, Embedded Global Positioning System Inertial Navigation Systems (EGIs), Radar Electronics Unit (REU), Modernized Target Acquisition Designation System (MTADS)/Pilot Night Vision System (PNVS) and Unmanned Aerial Vehicle Tactical Common Data Link Assembly (UTA). Other Cost includes Support Equipment, Peculiar Ground Support (PGSE), and Government In-House.

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Exhibit P-21, Production Schedule: PB 2016 Army															Date: February 2015									
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20										P-1 Line Item Number / Title: A05133 / AH-64 Apache Block IIIB New Build										Item Number / Title [DODIC]: A05133 / AH-64 Apache Block IIIB New Build				

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
CFE																															
	1	2013	ARMY	10	-	10																									
War Replacement Aircraft																															
	2	2013	ARMY	3	-	3																									
	2	2014	ARMY	4	-	4																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army															Date: February 2015														
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20										P-1 Line Item Number / Title: A05133 / AH-64 Apache Block IIIB New Build										Item Number / Title [DODIC]: A05133 / AH-64 Apache Block IIIB New Build									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2016													Fiscal Year 2017														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 5	BAL D U E A S O F 1 O C T	Calendar Year 2016													Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
CFE																																
	1	2013	ARMY	10	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
War Replacement Aircraft																																
	2	2013	ARMY	3	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	2	2014	ARMY	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	1	-	-	-	-				

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Exhibit P-21, Production Schedule: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20		P-1 Line Item Number / Title: A05133 / AH-64 Apache Block IIIB New Build
		Item Number / Title [DODIC]: A05133 / AH-64 Apache Block IIIB New Build

MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	The Boeing Company - Mesa	48	84	144	-	11	13	24	-	6	12	18
2	The Boeing Company - Mesa	48	84	144	-	11	13	24	-	6	12	18

Remarks:
 The reduction in the Economical Production Rate of 96 was a number carried forward from prior year submission. 7 aircraft per month (84) is the capacity at Full Rate Production assuming a 1-8-5 shift. This requirement is driven primarily by the production rate associated with current fuselage tooling capabilities. In order to increase the 1-8-5 (single shift) production rate, additional tooling must be procured. The Min 48 A/C per year is based upon Combined Remanufacture and New Build quantities.

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

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

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** AA0005 / UH-60 Blackhawk M Model (MYP)

ID Code (A=Service Ready, B=Not Service Ready) :		Program Elements for Code B Items:					Other Related Program Elements:					
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 (Units in Each)	609	70	87	94	-	94	60	72	37	38	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	10,563.256	1,221.035	1,475.772	1,558.330	-	1,558.330	881.206	1,590.311	944.194	943.247	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	932.581	108.059	119.545	122.385	-	122.385	127.079	507.320	93.707	95.300	Continuing	Continuing
Net Procurement (P1) (\$ in Millions)	9,630.675	1,112.976	1,356.227	1,435.945	-	1,435.945	754.127	1,082.991	850.487	847.947	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	1,033.414	116.001	117.138	127.079	-	127.079	508.927	99.408	92.583	112.583	Continuing	Continuing
Total Obligation Authority (\$ in Millions)	10,664.089	1,228.977	1,473.365	1,563.024	-	1,563.024	1,263.054	1,182.399	943.070	960.530	Continuing	Continuing

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	17,345.248	17,443.357	16,962.897	16,577.979	-	16,577.979	14,686.767	22,087.653	25,518.757	24,822.290	Continuing	Continuing

Description:

The UH-60M Black Hawk Helicopter serves as the Army's utility helicopter for the current and future force and is in line with the Army's Modernization Strategy, the National Military Strategy, and the National Defense Strategy. The UH-60M Black Hawk is a digital networked platform with greater range and lift to support maneuver Commanders through air assault, general support command and control, and aeromedical evacuation. Full rate production for this new build helicopter began in 2007. The UH-60M Black Hawk, with the integrated Medical Evacuation (MEDEVAC) Mission Equipment Package (MEP) kit, provides day/night and adverse weather emergency evacuation of casualties. The integration of the MEDEVAC MEP into the UH-60M changes the nomenclature to HH-60M.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	38	50	79	-	79	47	42	25	-
	Total Obligation Authority	655.627	856.870	1,303.574	-	1,303.574	970.931	748.585	671.498	-
ANG	Quantity	32	31	15	-	15	13	30	12	38
	Total Obligation Authority	573.350	508.285	259.450	-	259.450	292.123	433.814	271.572	960.530
AR	Quantity	-	6	-	-	-	-	-	-	-
	Total Obligation Authority	-	108.210	-	-	-	-	-	-	-
Total:	Quantity	70	87	94	-	94	60	72	37	38
Secondary Distribution	Total Obligation Authority	1,228.977	1,473.365	1,563.024	-	1,563.024	1,263.054	1,182.399	943.070	960.530

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** AA0005 / UH-60 Blackhawk M Model (MYP)

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
A05002 / UH-60 BLACK HAWK (MYP)	P-5, P-5a, P-21		609 / 10,563.256	70 / 1,221.035	87 / 1,475.772	94 / 1,558.330	- / -	94 / 1,558.330
Total Gross/Weapon System Cost			609 / 10,563.256	70 / 1,221.035	87 / 1,475.772	94 / 1,558.330	- / -	94 / 1,558.330

*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:
 FY 2016 Base funding in the amount of \$1,563.024 million will procure 94 aircraft.

Note: By having a Multi-year contract versus 5 single year contracts yielded a 10.9% cost avoidance (\$557.418 million) FY 2012 through FY 2016.

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.

The FY16 funding request was reduced by \$5.047 million to account for the availability of prior year execution balances.

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: AA0005 / UH-60 Blackhawk M Model (MYP)	Item Number / Title [DODIC]: A05002 / UH-60 BLACK HAWK (MYP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (<i>Units in Each</i>)	609	70	87	94	-	94
Gross/Weapon System Cost (<i>\$ in Millions</i>)	10,563.256	1,221.035	1,475.772	1,558.330	-	1,558.330
Less PY Advance Procurement (<i>\$ in Millions</i>)	932.581	108.059	119.545	122.385	-	122.385
Net Procurement (P1) (<i>\$ in Millions</i>)	9,630.675	1,112.976	1,356.227	1,435.945	-	1,435.945
Plus CY Advance Procurement (<i>\$ in Millions</i>)	1,033.414	116.001	117.138	127.079	-	127.079
Total Obligation Authority (<i>\$ in Millions</i>)	10,664.089	1,228.977	1,473.365	1,563.024	-	1,563.024

(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 Thousands</i>)	17,345.248	17,443.357	16,962.897	16,577.979	-	16,577.979

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Airframes/CFE ^(†)	11,918.762	609	7,258.526	11,759.171	70	823.142	11,889.115	87	1,034.353	11,572.011	94	1,087.769	-	-	-	11,572.011	94	1,087.769
Engines/Accessories	677.281	1,218	824.928	728.029	140	101.924	738.569	174	128.511	750.186	188	141.035	-	-	-	750.186	188	141.035
Avionics (GFE)	-	-	390.064	-	-	41.735	-	-	57.622	-	-	60.176	-	-	-	-	-	60.176
Other GFE	-	-	247.263	-	-	21.524	-	-	27.182	-	-	29.794	-	-	-	-	-	29.794
ECO (All FLYAWAY Components)	-	-	227.679	-	-	33.286	-	-	40.416	-	-	43.135	-	-	-	-	-	43.135
Other Costs (Mission Equipment)	-	-	421.348	-	-	48.818	-	-	50.753	-	-	53.875	-	-	-	-	-	53.875
Tooling Equipment	-	-	98.771	-	-	0.009	-	-	2.039	-	-	0.851	-	-	-	-	-	0.851
Other Nonrecurring Cost	-	-	124.015	-	-	1.162	-	-	1.469	-	-	1.604	-	-	-	-	-	1.604
Peculiar Training Equipment	-	-	301.990	-	-	30.490	-	-	24.519	-	-	22.199	-	-	-	-	-	22.199
Publications/Tech Data	-	-	20.339	-	-	3.283	-	-	3.382	-	-	3.501	-	-	-	-	-	3.501
PM Administration	-	-	279.100	-	-	41.598	-	-	42.388	-	-	43.057	-	-	-	-	-	43.057
Fielding	-	-	369.233	-	-	74.064	-	-	63.138	-	-	71.334	-	-	-	-	-	71.334
<i>Subtotal: Recurring Cost</i>	-	-	10,563.256	-	-	1,221.035	-	-	1,475.772	-	-	1,558.330	-	-	-	-	-	1,558.330
<i>Subtotal: Flyaway Cost</i>	-	-	10,563.256	-	-	1,221.035	-	-	1,475.772	-	-	1,558.330	-	-	-	-	-	1,558.330
Gross/Weapon System Cost	17,345.248	609	10,563.256	17,443.357	70	1,221.035	16,962.897	87	1,475.772	16,577.979	94	1,558.330	-	-	-	16,577.979	94	1,558.330

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Exhibit P-5, Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: AA0005 / UH-60 Blackhawk M Model (MYP)	Item Number / Title [DODIC]: A05002 / UH-60 BLACK HAWK (MYP)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	38	50	79	-	79
	Total Obligation Authority	655.627	856.870	1,303.574	-	1,303.574
ANG	Quantity	32	31	15	-	15
	Total Obligation Authority	573.350	508.285	259.450	-	259.450
AR	Quantity	-	6	-	-	-
	Total Obligation Authority	-	108.210	-	-	-
Total: Secondary Distribution	Quantity	70	87	94	-	94
	Total Obligation Authority	1,221.035	1,475.772	1,558.330	-	1,558.330

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: AA0005 / UH-60 Blackhawk M Model (MYP)	Item Number / Title [DODIC]: A05002 / UH-60 BLACK HAWK (MYP)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Airframes/CFE		2014	Sikorsky Aircraft / Stratford CT	SS / FP	AMCOM	Dec 2013	Aug 2014	70	11,759.171	N		Jan 2010
Airframes/CFE ^(†)		2015	Sikorsky Aircraft / Stratford CT	SS / FP	AMCOM	Dec 2014	Aug 2015	87	11,889.115	N		Jan 2010
Airframes/CFE ^(†)		2016	Sikorsky Aircraft / Stratford CT	SS / FP	AMCOM	Dec 2015	Aug 2016	94	11,572.011	N		Jan 2010

Advance Procurement

CFE Airframe		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Feb 2014	Aug 2015	70	708.720			
CFE Airframe		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Jul 2016	70	708.720			
CFE Airframe		2016	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2016	Jan 2016	82	708.720			
Auxiliary Power Unit		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Feb 2014	Aug 2014	70	42.902			
Auxiliary Power Unit		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Jul 2015	70	42.902			
Auxiliary Power Unit		2016	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2016	Jan 2016	82	42.902			
Engines		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Feb 2014	Apr 2015	140	329.695			
Engines		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Mar 2016	140	329.695			
Engines		2016	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2016	Jan 2016	164	329.695			
EGI		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Feb 2014	Feb 2015	140	53.256			
EGI		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Jan 2016	140	53.256			
EGI		2016	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2016	Jan 2016	164	53.256			
Heads Up Display AVS-7		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Feb 2014	Nov 2014	70	32.220			
Heads Up Display AVS-7		2015	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Oct 2015	70	32.220			
Heads Up Display AVS-7		2016	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2016	Jan 2016	82	32.220			
Hover Infrared Suppressor		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Mar 2016	-	-			
Miscellaneous		2014	See End Item P-5A/ NA / See End Item P-5A	Various	See End Item P-5A	Jan 2015	Jan 2016	-	-			

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: AA0005 / UH-60 Blackhawk M Model (MYP)	Item Number / Title [DODIC]: A05002 / UH-60 BLACK HAWK (MYP)

^(†) indicates the presence of a P-21

Remarks:

FY 2012 began the next five (5) year multi-year, multi-service contract for the H-60Ms.

Delivery schedules appear to extend beyond the 12 month period for the following reasons:

Yearly procurements consist of UH-60M, HH-60M and supplemental aircraft. Each of the three are awarded on different contract line items. While each of these efforts deliver all of their aircraft within a 12 month span, they do not deliver within the same 12 month time period.

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20 **P-1 Line Item Number / Title:** AA0005 / UH-60 Blackhawk M Model (MYP) **Item Number / Title [DODIC]:** A05002 / UH-60 BLACK HAWK (MYP)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016													Fiscal Year 2017													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 5	BAL D U E A S O F 1 O C T	Calendar Year 2016													Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
Airframes/CFE																																
Prior Years Deliveries: 609																																
1	2015	ARMY	87	14	73	7	7	7	7	7	7	8	7	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1	2015	NAVY (‡)	37	5	32	1	1	1	-	2	2	3	2	2	2	3	2	3	3	3	2	-	-	-	-	-	-	-	-	-	-	
1	2015	FMS (‡)	12	3	9	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1	2015	Total	136	22	114	9	9	9	8	10	10	12	10	11	10	3	2	3	3	3	2	-	-	-	-	-	-	-	-	-		
1	2016	ARMY	94	-	94			A -	-	-	-	-	-	-	-	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
1	2016	NAVY (‡)	29	-	29			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	3	4	2	2	2	2	2		
1	2016	FMS (‡)	28	-	28			A -	-	-	-	-	-	-	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2		
1	2016	Total	151	-	151			-	1	9	9	9	9	9	12	14	13	14	11	11	4	4	13									
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L		

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20 **P-1 Line Item Number / Title:** AA0005 / UH-60 Blackhawk M Model (MYP) **Item Number / Title [DODIC]:** A05002 / UH-60 BLACK HAWK (MYP)

Cost Elements <i>(Units in Each)</i>				Fiscal Year 2018													Fiscal Year 2019															
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	
Airframes/CFE																																
Prior Years Deliveries: 609																																
1		2015	ARMY	87	87	-																										
1		2015	NAVY (+)	37	37	-																										
1		2015	FMS (+)	12	12	-																										
1		2015	Total	136	136	-																										
1		2016	ARMY	94	94	-	-	-	-	-																						
1		2016	NAVY (+)	29	21	8	2	2	2	2																						
1		2016	FMS (+)	28	23	5	2	2	1	-																						
1		2016	Total	151	138	13	4	4	3	2																						
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L	

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Exhibit P-21, Production Schedule: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: AA0005 / UH-60 Blackhawk M Model (MYP)	Item Number / Title [DODIC]: A05002 / UH-60 BLACK HAWK (MYP)
--	--	--

MFR Ref #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial			Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Sikorsky Aircraft - Stratford CT	18	96	150	8	3	6	9	-	3	6	9

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

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

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** AA0005 / UH-60 Blackhawk M Model (MYP)

Program Elements for Code B Items: **Other Related Program Elements:**

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
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,033.414	116.001	117.138	127.079	-	127.079	508.927	99.408	92.583	112.583	Continuing	Continuing
Net Procurement (P1) (<i>\$ in Millions</i>)	1,033.414	116.001	117.138	127.079	-	127.079	508.927	99.408	92.583	112.583	Continuing	Continuing
Total Obligation Authority (<i>\$ in Millions</i>)	1,033.414	116.001	117.138	127.079	-	127.079	508.927	99.408	92.583	112.583	Continuing	Continuing

Description:

The Advance Procurement for the UH-60 Black Hawk contains funding for the airframe and engine contracts as well as funding for Government Furnished Equipment (GFE) to support the UH-60 aircraft and mission kit production. GFE (in addition to the engine) currently requiring advance procurement includes numerous communication, navigation, and Aircraft Survivability Equipment items procured by the Communications and Electronics Command (CECOM).

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	P-1 Line Item Number / Title: AA0005 / UH-60 Blackhawk M Model (MYP)
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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)					
A05002 / UH-60 BLACK HAWK (MYP)	P-10		- / 1,033.414	- / 116.001	- / 117.138	- / 127.079	- / -	- / 127.079
Total Gross/Weapon System Cost			- / 1,033.414	- / 116.001	- / 117.138	- / 127.079	- / -	- / 127.079

*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:

FY 2016 procures long lead and Economic Order Quantities (EOQ) items such as T700-GE-701D engines and avionics components for the FY 2012-FY 2016 multiyear contract.

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2016 Army					Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20		P-1 Line Item Number / Title: AA0005 / UH-60 Blackhawk M Model (MYP)			P-5 Number / Title: A05002 / UH-60 BLACK HAWK (MYP)	
First System (2016) Award Date: May 2005		First System (2016) Completion Date: June 2006		Interval Between Systems: 18 Months		
UH-60 BLACK HAWK (MYP)		Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2014 <i>(Each)</i>	FY 2015 <i>(Each)</i>	FY 2016 <i>(Each)</i>
Quantity			609	70	87	94
Cost Element		When Rqd <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2014 <i>(\$ M)</i>	FY 2015 <i>(\$ M)</i>	FY 2016 <i>(\$ M)</i>
Other						
CFE Airframe ^(†)		6	506.652	33.389	31.940	58.115
Auxiliary Power Unit ^(†)		3	23.402	4.214	4.347	3.518
Engines ^(†)		3	383.019	64.772	66.798	54.070
EGI ^(†)		3	60.671	10.462	10.790	8.734
Heads Up Display AVS-7 ^(†)		3	18.658	3.164	3.263	2.642
Hover Infrared Suppressor ^(†)		3	25.361	-	-	-
Miscellaneous ^(†)		3	15.651	-	-	-
Total: Other			1,033.414	116.001	117.138	127.079
Total Advance Procurement/Obligation Authority			1,033.414	116.001	117.138	127.079

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2016 Army						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20		P-1 Line Item Number / Title: AA0005 / UH-60 Blackhawk M Model (MYP)				P-5 Number / Title: A05002 / UH-60 BLACK HAWK (MYP)	
Cost Elements	QPA <i>(Each)</i>	FY 2016					
		Production Leadtime <i>(Months)</i>	Unit Cost <i>(\$ K)</i>	Contract Forecast Date	2016 Qty <i>(Each)</i>	For FY	Total Cost Request <i>(\$ M)</i>
Other							
CFE Airframe ^(†)	1	-	708.720	Jan 2016	82		58.115
Auxiliary Power Unit ^(†)	1	-	42.902	Jan 2016	82		3.518
Engines ^(†)	2	-	329.695	Jan 2016	164		54.070
EGI ^(†)	2	-	53.256	Jan 2016	164		8.734
Heads Up Display AVS-7 ^(†)	1	-	32.220	Jan 2016	82		2.642
Hover Infrared Suppressor ^(†)	-						-
Miscellaneous ^(†)	-						-
<i>Total: Other</i>							<i>127.079</i>
Total Advance Procurement/Obligation Authority							127.079

Description:

N/A

^(†) indicates the presence of Contract Data presented in the associated P-5 Item's P-5a exhibit.

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05009 / UH-60 BLACK HAWK A AND L MODELS

Resource Summary	ID Code (A=Service Ready, B=Not Service Ready) :		Program Elements for Code B Items:				Other Related Program Elements:					
	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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	46.641	-	46.641	46.588	75.714	168.304	210.832	-	548.079
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	-	46.641	-	46.641	46.588	75.714	168.304	210.832	-	548.079
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	46.641	-	46.641	46.588	75.714	168.304	210.832	-	548.079

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

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

Description:

UH-60 A and L Models include UH-60 A to L conversions in FY16 through FY18 and UH-60L Digital, now designated as UH-60V, production starting in FY18. The UH-60 BLACKHAWK helicopter is the Army's utility helicopter in the future force. It is a twin engine, single rotor, four bladed utility helicopter used for air assault, general support, command & control, and aero-medical evacuations (MEDEVAC). The UH-60 is joint force capable, providing 24 hour/day support including operations at night and in adverse weather conditions. The UH-60 is designed to carry a crew of four plus eleven combat equipped troops or an external load up to 9,000 pounds. The UH-60 BLACK HAWK was fielded in 1978 as a replacement for the UH-1. From 1978 to 1988, UH-60As were produced. In 1989 production of UH-60Ls with improved engines and drive train began. In 2007, full rate production of UH-60Ms began which provided a digital cockpit, digital Flight Management System (FMS), improved engine, and wide-cord main rotor blades. The UH-60V provides an integrated digital map, integrated performance planning, common functionality and commonality of training with UH-60M.

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.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	86.507	138.850
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	46.641	-	46.641	46.588	75.714	81.797	71.982
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	46.641	-	46.641	46.588	75.714	168.304	210.832

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:**
A05009 / UH-60 BLACK HAWK A AND L MODELS

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
A05009 / UH-60 A and L Models (A05009) (Operational)	P-3a		- / -	- / -	- / -	- / 46.641	- / -	- / 46.641
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / 46.641	- / -	- / 46.641
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
A05009 / UH-60 A and L Models (A05009) (Operational)	P-3a		- / 46.588	- / 75.714	- / 168.304	- / 210.832	- / -	- / 548.079
Total Gross/Weapon System Cost			- / 46.588	- / 75.714	- / 168.304	- / 210.832	- / -	- / 548.079

*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:
 FY16 base procurement dollars in the amount of \$46.641M will procure 40 UH-60 A to L conversions. The UH-60 A to L conversion program expands the current UH-60 A to A recapitalization/rebuild program to a UH-60 A to L recapitalization/rebuild program. Effective in FY16, all A to L conversions and UH-60V conversions will be procured under this line, A05009. Prior to FY16 the funding for UH-60 A to L conversions was utilized under Black Hawk Modifications line AA0492.

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20				P-1 Line Item Number / Title: A05009 / UH-60 BLACK HAWK A AND L MODELS						Modification Number / Title: A05009 / UH-60 A and L Models (A05009)		

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>)	-	-	-	46.641	-	46.641	46.588	75.714	168.304	210.832	-	548.079
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	-	-	-	46.641	-	46.641	46.588	75.714	168.304	210.832	-	548.079
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	46.641	-	46.641	46.588	75.714	168.304	210.832	-	548.079
<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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

UH-60 A and L Models includes UH-60 A to L conversions and the UH-60L Digital conversions, now designated as UH-60V.

UH-60V aircraft cost includes all digital components and their associated cost, as well as Engineering Changes, Systems Engineering and Program Management, Trainers, Data and Fielding.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	-	-	-	-	-	86.507	138.850
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	46.641	-	46.641	46.588	75.714	81.797	71.982
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	46.641	-	46.641	46.588	75.714	168.304	210.832

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20				P-1 Line Item Number / Title: A05009 / UH-60 BLACK HAWK A AND L MODELS						Modification Number / Title: A05009 / UH-60 A and L Models (A05009)			
Models of Systems Affected: UH-60 A and L				Modification Type: Operational				Related RDT&E PEs:					
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Procurement													
<i>Modification Item 1 of 2: UH-60A to UH-60L Conversions</i>													
A Kits													
Recurring													
Other													
	-	-	-	40 / 46.641	-	40 / 46.641	40 / 46.588	32 / 38.574	-	-	-	112 / 131.803	
<i>Subtotal: Recurring</i>													
	-	-	-	- / 46.641	-	- / 46.641	- / 46.588	- / 38.574	-	-	-	- / 131.803	
<i>Subtotal: UH-60A to UH-60L Conversions</i>													
	-	-	-	40 / 46.641	-	40 / 46.641	40 / 46.588	32 / 38.574	-	-	-	112 / 131.803	
<i>Modification Item 2 of 2: UH-60V</i>													
A Kits													
Recurring													
Other													
	-	-	-	-	-	-	-	10 / 37.140	35 / 156.790	50 / 168.553	-	95 / 362.483	
<i>Subtotal: Recurring</i>													
	-	-	-	-	-	-	-	- / 37.140	- / 156.790	- / 168.553	-	- / 362.483	
<i>Subtotal: UH-60V</i>													
	-	-	-	-	-	-	-	10 / 37.140	35 / 156.790	50 / 168.553	-	95 / 362.483	
<i>Subtotal: Procurement, All Modification Items</i>													
	-	-	-	40 / 46.641	-	40 / 46.641	40 / 46.588	42 / 75.714	35 / 156.790	50 / 168.553	-	207 / 494.286	
Installation													
<i>Modification Item 1 of 2: UH-60A to UH-60L Conversions</i>													
	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Modification Item 2 of 2: UH-60V</i>													
	-	-	-	-	-	-	-	-	10 / 11.514	35 / 42.279	-	45 / 53.793	
<i>Subtotal: Installation</i>													
	-	-	-	-	-	-	-	-	10 / 11.514	35 / 42.279	-	45 / 53.793	
Total													
Total Cost (Procurement + Support + Installation)													
	-	-	-	46.641	-	46.641	46.588	75.714	168.304	210.832	-	548.079	

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: A05009 / UH-60 BLACK HAWK A AND L MODELS	Modification Number / Title: A05009 / UH-60 A and L Models (A05009)

Modification Item 1 of 2: UH-60A to UH-60L Conversions

Manufacturer Information							
Manufacturer Name: Corpus Christi Army Depot				Manufacturer Location: Corpus Christi Army Depot			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Oct 2015	Oct 2016	Oct 2017		
Delivery Dates			Oct 2016	Oct 2017	Oct 2018		

Installation Information

Method of Implementation: Depot

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)											
Prior Years	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule																																
	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	-	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	8	8	8	8	-	-	-	-	-	-	-	-	-	-	112
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	8	8	8	8	-	-	-	-	-	-	112

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: A05009 / UH-60 BLACK HAWK A AND L MODELS	Modification Number / Title: A05009 / UH-60 A and L Models (A05009)

Modification Item 2 of 2: UH-60V

Manufacturer Information

Manufacturer Name: Corpus Christi Army Depot	Manufacturer Location: Corpus Christi Army Depot
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: Depot

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)											
Prior Years	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 11.514	35 / 42.279	- / -	45 / 53.793
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 11.514	35 / 42.279	- / -	45 / 53.793

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	9	9	9	8	13	13	12	12	659	754	
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	9	9	9	8	709	754	

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05101 / CH-47 Helicopter

ID Code (A=Service Ready, B=Not Service Ready) :		Program Elements for Code B Items:					Other Related Program Elements:					
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 (Units in Each)	211	39	32	39	-	39	27	13	6	10	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	6,014.652	915.681	982.880	1,126.948	-	1,126.948	826.609	584.725	233.343	242.331	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	270.593	77.031	90.376	102.361	-	102.361	99.344	8.707	-	-	Continuing	Continuing
Net Procurement (P1) (\$ in Millions)	5,744.059	838.650	892.504	1,024.587	-	1,024.587	727.265	576.018	233.343	242.331	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	347.624	90.376	102.361	99.344	-	99.344	8.707	-	-	-	Continuing	Continuing
Total Obligation Authority (\$ in Millions)	6,091.683	929.026	994.865	1,123.931	-	1,123.931	735.972	576.018	233.343	242.331	Continuing	Continuing

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	28,505.460	23,479.000	30,715.000	28,896.103	-	28,896.103	30,615.148	44,978.846	38,890.500	24,233.100	Continuing	Continuing

Description:

The CH-47F Chinook is a twin-turbine, tandem-rotor, heavy-lift transport helicopter with a useful load of up to 25,000 pounds. As the Army's only heavy lift helicopter, the CH-47F Improved Cargo helicopter is an essential component of the Army Future Force. The mission of the CH-47F is to transport troops (including air assault), supplies, weapons, and other cargo in general support operations. The CH-47F is vital to Overseas Contingency Operations and Homeland Security needs of our nation. Secondary missions include medical evacuation, aircraft recovery, parachute drops, disaster relief, and search and rescue. These aircraft are fielded to heavy helicopter companies and Special Operations Aviation. The CH-47F is expected to remain the Army's heavy lift helicopter until at least the 2038 timeframe. The CH-47F ReNew Program will provide a more reliable, less costly to operate aircraft compatible with Joint digital connectivity requirements in the Future Force. Key product improvements integrate a new-machined airframe, a performance capability, Common Avionics Architecture System, Air Warrior, Common Missile Warning System, enhanced air transportability, Digital Advance Flight Control System (DAFCS) and an Extended Range Fuel System II for self-deployment missions. The CH-47F program extends the Army's Chinook fleets useful life 20 years incorporating reliability and maintainability improvements including airframe tuning for vibration reduction, corrosion protection, digital source collectors, Transportable Flight Proficiency Simulators, Cargo Floor Handling System, Ballistic Protection System, Transformation Sets, Kits and Outfits, Aviation Training Devices, M240 Window/Door Gun Mounts and an automated maintenance program with a 400-hour phase interval. The ReNew program rebuilds and replaces CH-47Ds and 61 Special Operations Aviation MH-47s to the CH-47F/MH-47G configuration. The New Build program procures all CH-47F New Build aircraft and 8 Special Operations Aviation MH-47G New Build aircraft. The CH-47F PM is fielding and training Combat Aviation Brigades (CABs), NG/USAR units using a New Equipment Training team. The CH-47F program is currently in the third year of a second five-year Multiyear (MY) contract (FY13 to FY17) that was awarded on 10 Jun 2013.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	32	26	39	-	39	27 ⁽ⁱ⁾	13 ^(j)	6 ^(k)	10 ^(l)
	Total Obligation Authority	692.426	796.865	1,123.931	-	1,123.931	735.972 ^(m)	576.018 ⁽ⁿ⁾	233.343 ^(o)	242.331 ^(p)
ANG	Quantity	7	-	-	-	-	-	-	-	-
	Total Obligation Authority	236.600	-	-	-	-	-	-	-	-
AR	Quantity	-	6	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05101 / CH-47 Helicopter

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

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Total Obligation Authority	-	198.000	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	39	32	39	-	39	27	13	6	10
Total Obligation Authority	929.026	994.865	1,123.931	-	1,123.931	735.972	576.018	233.343	242.331

Component Budget Years Quantity values do not sum to the represented total intentionally:

- (i) Army Active - FY 2017 Quantity Delta: 0
- (j) Army Active - FY 2018 Quantity Delta: 9
- (k) Army Active - FY 2019 Quantity Delta: 0
- (l) Army Active - FY 2020 Quantity Delta: 0

Component Budget Years Cost values do not sum to the represented total intentionally:

- (m) Army Active - FY 2017 Cost Delta: 0.197 million
- (n) Army Active - FY 2018 Cost Delta: 268.764 million
- (o) Army Active - FY 2019 Cost Delta: 0.000 million
- (p) Army Active - FY 2020 Cost Delta: 0.000 million

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05101 / CH-47 Helicopter

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
A05008 / CH-47 NEW BUILD	P-5, P-5a, P-21		154 / 4,318.473	17 / 290.005	4 / 236.243	12 / 357.820	- / -	12 / 357.820
A05105 / CH-47 SLEP (.)	P-3a		57 / 1,696.179	22 / 625.676	28 / 746.637	27 / 769.128	- / -	27 / 769.128
Total Gross/Weapon System Cost			211 / 6,014.652	39 / 915.681	32 / 982.880	39 / 1,126.948	- / -	39 / 1,126.948
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
A05008 / CH-47 NEW BUILD	P-5, P-5a, P-21		- / -	- / -	- / -	- / -	- / -	- / -
A05105 / CH-47 SLEP (.)	P-3a		27 / 826.412	4 / 315.961	6 / 233.343	10 / 242.331	Continuing	Continuing
Total Gross/Weapon System Cost			27 / 826.609	13 / 584.725	6 / 233.343	10 / 242.331	Continuing	Continuing

*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:

FY16 Base procurement dollars in the amount of \$1123.931 million will procure 12 new build aircraft and 27 renew aircraft.

Note: By having a Multi-year contract versus 5 single year contracts yielded a cost avoidance (\$810M) FY13 through FY17.

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.

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: A05101 / CH-47 Helicopter	Item Number / Title [DODIC]: A05008 / CH-47 NEW BUILD

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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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>)	154	17	4	12	-	12	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	4,318.473	290.005	236.243	357.820	-	357.820	-	-	-	-	-	-
Less PY Advance Procurement (<i>\$ in Millions</i>)	32.759	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	4,285.714	290.005	236.243	357.820	-	357.820	-	-	-	-	-	-
Plus CY Advance Procurement (<i>\$ in Millions</i>)	32.759	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	4,318.473	290.005	236.243	357.820	-	357.820	-	-	-	-	-	-

(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 Thousands</i>)	28,042.033	17,059.118	59,060.750	29,818.333	-	29,818.333	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Airframes/CFE ^(†)	17,229.000	154	2,653.266	9,133.710	17	155.273	33,147.500	4	132.590	21,982.580	12	263.791	-	-	-	21,982.580	12	263.791
Engine/Accessories	953.000	308	293.524	439.240	34	14.934	1,594.000	8	12.752	1,057.080	24	25.370	-	-	-	1,057.080	24	25.370
CFE Avionics	-	-	183.665	-	-	9.716	-	-	8.296	-	-	16.506	-	-	-	-	-	16.506
GFE	-	-	397.693	-	-	20.882	-	-	18.507	-	-	37.377	-	-	-	-	-	37.377
ECO (Flyaway)	-	-	43.323	-	-	7.622	-	-	6.541	-	-	-	-	-	-	-	-	-
Other Costs	-	-	93.043	-	-	12.183	-	-	8.303	-	-	7.491	-	-	-	-	-	7.491
SOA Aircraft	-	-	95.134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PSE	-	-	23.441	-	-	1.119	-	-	0.939	-	-	0.518	-	-	-	-	-	0.518
Peculiar Training Equipment	-	-	66.550	-	-	2.611	-	-	2.428	-	-	4.109	-	-	-	-	-	4.109
Publications/Tech Data	-	-	15.004	-	-	0.146	-	-	0.122	-	-	0.202	-	-	-	-	-	0.202
ECO (Support Items)	-	-	2.925	-	-	0.241	-	-	0.202	-	-	0.112	-	-	-	-	-	0.112
NET	-	-	77.750	-	-	7.317	-	-	3.450	-	-	-	-	-	-	-	-	-
Other Support Costs	-	-	42.445	-	-	4.223	-	-	3.543	-	-	-	-	-	-	-	-	-
Post Production Modifications	-	-	308.395	-	-	52.409	-	-	37.408	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	22.315	-	-	1.329	-	-	1.162	-	-	2.344	-	-	-	-	-	2.344
Subtotal: Recurring Cost	-	-	4,318.473	-	-	290.005	-	-	236.243	-	-	357.820	-	-	-	-	-	357.820
Subtotal: Flyaway Cost	-	-	4,318.473	-	-	290.005	-	-	236.243	-	-	357.820	-	-	-	-	-	357.820

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Exhibit P-5, Cost Analysis: PB 2016 Army												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20						P-1 Line Item Number / Title: A05101 / CH-47 Helicopter						Item Number / Title [DODIC]: A05008 / CH-47 NEW BUILD					
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code:							

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	28,042.033	154	4,318.473	17,059.118	17	290.005	59,060.750	4	236.243	29,818.333	12	357.820	-	-	-	29,818.333	12	357.820

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)

Flyaway Cost																		
Recurring Cost																		
Airframes/CFE ^(†)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engine/Accessories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CFE Avionics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GFE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ECO (Flyaway)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOA Aircraft	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Peculiar Training Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Publications/Tech Data	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ECO (Support Items)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NET	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Support Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Post Production Modifications	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	16	4	12	-	12	-	-	-	-
	Total Obligation Authority	251.405	236.243	357.820	-	357.820	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: A05101 / CH-47 Helicopter	Item Number / Title [DODIC]: A05008 / CH-47 NEW BUILD
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
ANG	Quantity	1	-	-	-	-	-	-	-	-
	Total Obligation Authority	38.600	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	17	4	12	-	12	-	-	-	-
	Total Obligation Authority	290.005	236.243	357.820	-	357.820	-	-	-	-

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: A05101 / CH-47 Helicopter	Item Number / Title [DODIC]: A05008 / CH-47 NEW BUILD
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Airframes/CFE ^(†)		2012	The Boeing Company / Ridley Park, PA	SS / FFP	AMCOM	Jun 2013	Mar 2014	25	16,080.000	N		Apr 2007
Airframes/CFE ^(†)		2013	The Boeing Company / Ridley Park, PA	SS / FFP	AMCOM	Dec 2013	Mar 2015	17	9,133.710	N		Jul 2011
Airframes/CFE ^(†)		2014	The Boeing Company / Ridley Park, PA	SS / FFP	AMCOM	Dec 2014	Mar 2016	17	9,133.710	N		Jul 2011
Airframes/CFE ^(†)		2015	The Boeing Company / Ridley Park, PA	SS / FFP	AMCOM	Dec 2015	Mar 2017	4	33,147.500	N		Jul 2011
Airframes/CFE ^(†)		2016	The Boeing Company / Ridley Park, PA	SS / FFP	AMCOM	Dec 2017	Mar 2018	12	21,982.580	N		Jul 2011

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Army								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20				P-1 Line Item Number / Title: A05101 / CH-47 Helicopter				Item Number / Title [DODIC]: A05008 / CH-47 NEW BUILD				
		Production Rates (Each / Year)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial			Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	The Boeing Company - Ridley Park, PA	24	24	72	5	5	28	33	-	-	-	-

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

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

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20				P-1 Line Item Number / Title: A05101 / CH-47 Helicopter				Modification Number / Title: A05105 / CH-47 SLEP			

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>)	57	22	28	27	-	27	27	4	6	10	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,696.179	625.676	746.637	769.128	-	769.128	826.412	315.961	233.343	242.331	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	237.834	77.031	90.376	102.361	-	102.361	99.344	8.707	-	-	Continuing	Continuing
Net Procurement (P1) (<i>\$ in Millions</i>)	1,458.345	548.645	656.261	666.767	-	666.767	727.068	307.254	233.343	242.331	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	314.865	90.376	102.361	99.344	-	99.344	8.707	-	-	-	Continuing	Continuing
Total Obligation Authority (<i>\$ in Millions</i>)	1,773.210	639.021	758.622	766.111	-	766.111	735.775	307.254	233.343	242.331	Continuing	Continuing
<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 Thousands</i>)	29,757.526	28,439.818	26,665.607	28,486.222	-	28,486.222	30,607.852	78,990.250	38,890.500	24,233.100	Continuing	Continuing

Description:

The CH-47F Chinook is a twin-turbine, tandem-rotor, heavy lift transport helicopter with a useful load of up to 25,000 pounds. The ReNew program will provide a more reliable, less costly to operate aircraft compatible with Joint digital connectivity requirements in the Future Force. The ReNew Program produces an identical aircraft as the CH-47F New Build program with the exception of dynamic components including engine, transmission and drive train. During production, the aircraft receives a new airframe, cockpit, wiring and plumbing.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	16	22	27	-	27	27	4	6	10
	Total Obligation Authority	441.021	560.622	766.111	-	766.111	735.775	307.254	233.343	242.331
ANG	Quantity	6	-	-	-	-	-	-	-	-
	Total Obligation Authority	198.000	-	-	-	-	-	-	-	-
AR	Quantity	-	6	-	-	-	-	-	-	-
	Total Obligation Authority	-	198.000	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	22	28	27	-	27	27	4	6	10
	Total Obligation Authority	625.676	746.637	769.128	-	769.128	826.412	315.961	233.343	242.331

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20					P-1 Line Item Number / Title: A05101 / CH-47 Helicopter					Modification Number / Title: A05105 / CH-47 SLEP			
Models of Systems Affected: CH-47				Modification Type: .				Related RDT&E PEs:					
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)					
Procurement													
<i>Modification Item 1 of 1:</i> CH-47 D to F Conversion													
A Kits													
Recurring													
Recurring Production (Mods)	57 / 1,493.529	22 / 523.566	28 / 634.317	27 / 674.186	- / -	27 / 674.186	27 / 698.804	4 / 72.000	6 / 122.531	10 / 212.801	Continuing	Continuing	
Other Flyaway	0 / 89.000	- / 58.428	- / 71.386	- / 63.611	- / -	- / 63.611	- / 70.656	- / 28.661	- / -	- / 28.457	Continuing	Continuing	
Other Support	0 / 95.167	- / 19.170	- / 23.797	- / 13.995	- / -	- / 13.995	- / 20.122	- / 1.800	- / -	- / -	Continuing	Continuing	
Training	0 / 12.394	- / 21.340	- / 8.035	- / 9.246	- / -	- / 9.246	- / 13.972	- / -	- / -	- / -	Continuing	Continuing	
Support Equipment	0 / 6.089	- / 3.172	- / 9.102	- / 6.441	- / -	- / 6.441	- / 5.380	- / -	- / -	- / 1.073	Continuing	Continuing	
Post Production (Mods)	- / -	- / -	- / -	- / 1.649	- / -	- / 1.649	- / 17.478	- / 213.500	- / 110.812	- / -	Continuing	Continuing	
<i>Subtotal: Recurring</i>	- / 1,696.179	- / 625.676	- / 746.637	- / 769.128	- / -	- / 769.128	- / 826.412	- / 315.961	- / 233.343	- / 242.331	Continuing	Continuing	
<i>Subtotal: CH-47 D to F Conversion</i>	57 / 1,696.179	22 / 625.676	28 / 746.637	27 / 769.128	- / -	27 / 769.128	27 / 826.412	4 / 315.961	6 / 233.343	10 / 242.331	Continuing	Continuing	
<i>Subtotal: Procurement, All Modification Items</i>	57 / 1,696.179	22 / 625.676	28 / 746.637	27 / 769.128	- / -	27 / 769.128	27 / 826.412	4 / 315.961	6 / 233.343	10 / 242.331	Continuing	Continuing	
Installation													
<i>Modification Item 1 of 1:</i> CH-47 D to F Conversion	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	1,696.179	625.676	746.637	769.128	-	769.128	826.412	315.961	233.343	242.331	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: A05101 / CH-47 Helicopter	Modification Number / Title: A05105 / CH-47 SLEP

Modification Item 1 of 1: CH-47 D to F Conversion

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Ripley, PA
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	Jan 2014	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020
Delivery Dates	Jan 2015	Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020	Jan 2021

Installation Information

Method of Implementation: Contractor

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	52	5	5	6	5	6	7	7	7	7	6	7	7	7	6	7	7	7	7	1	1	1	1	1	2	1	2	2	2	3	48	226
Out	33	5	4	5	5	5	5	6	5	6	7	7	7	7	6	7	7	7	7	6	7	7	7	1	1	1	1	1	2	1	57	226

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05101 / CH-47 Helicopter

Program Elements for Code B Items: **Other Related Program Elements:**

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
Gross/Weapon System Cost (<i>\$ in Millions</i>)	347.624	90.376	102.361	99.344	-	99.344	8.707	-	-	-	Continuing	Continuing
Net Procurement (P1) (<i>\$ in Millions</i>)	347.624	90.376	102.361	99.344	-	99.344	8.707	-	-	-	Continuing	Continuing
Total Obligation Authority (<i>\$ in Millions</i>)	347.624	90.376	102.361	99.344	-	99.344	8.707	-	-	-	Continuing	Continuing

Description:

The CH-47F Chinook is a twin-turbine, tandem-rotor, heavy-lift transport helicopter with a useful load of up to 25,000 pounds. The CH-47F Improved Cargo Helicopter is an essential component of the Army Future Force. The CH-47F program fills the Army's Aviation Transformation Chinook requirement. Key product improvements integrate the CH-47F Common Avionics Architecture System (CAAS) digital cockpit which meets the Net-Ready Key Performance Parameters (KPPs) and also includes a digital data bus that permits installation of enhanced communication and navigation equipment for improved situational awareness, mission performance, and survivability. The new digital cockpit incorporates all new airframe components and modifies the aircraft to reduce vibration. New airframe structural components and modifications will reduce harmful vibrations, improving operation and support (O&S) efficiency and crew endurance. Other airframe modifications reduce by 60 percent the time required for aircraft tear down and build-up after C-5/C-17 deployment. These modifications significantly enhance the Chinook's strategic deployment capability.

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Exhibit P-40, Advance Procurement Budget Line Item Justification: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary **P-1 Line Item Number / Title:** A05101 / CH-47 Helicopter

Program Elements for Code B Items: **Other Related Program Elements:**

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)
A05105 / CH-47 SLEP	P-10		- / 314.865	- / 90.376	- / 102.361	- / 99.344	- / -	- / 99.344
Total Gross/Weapon System Cost			- / 347.624	- / 90.376	- / 102.361	- / 99.344	- / -	- / 99.344

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)
A05105 / CH-47 SLEP	P-10		- / 8.707	- / -	- / -	- / -	Continuing	Continuing
Total Gross/Weapon System Cost			- / 8.707	- / -	- / -	- / -	Continuing	Continuing

*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:

FY 16 Advanced procurement dollars in the amount of \$99.344 million will procure avionics and airframe advance procurement.

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.

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Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20	P-1 Line Item Number / Title: A05101 / CH-47 Helicopter	P-3a Number / Title: A05105 / CH-47 SLEP
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First System (2016) Award Date: December 2003	First System (2016) Completion Date: December 2006	Interval Between Systems: 2 Months
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	Production Leadtime <i>(Months)</i>	Prior Years <i>(Each)</i>	FY 2014 <i>(Each)</i>	FY 2015 <i>(Each)</i>	FY 2016 <i>(Each)</i>	FY 2017 <i>(Each)</i>	FY 2018 <i>(Each)</i>	FY 2019 <i>(Each)</i>	FY 2020 <i>(Each)</i>	To Complete <i>(Each)</i>	Total <i>(Each)</i>
CH-47 SLEP											
Quantity		57	22	28	27	27	4	6	10	-	-

	When Rqd <i>(Months)</i>	Prior Years <i>(\$ M)</i>	FY 2014 <i>(\$ M)</i>	FY 2015 <i>(\$ M)</i>	FY 2016 <i>(\$ M)</i>	FY 2017 <i>(\$ M)</i>	FY 2018 <i>(\$ M)</i>	FY 2019 <i>(\$ M)</i>	FY 2020 <i>(\$ M)</i>	To Complete <i>(\$ M)</i>	Total <i>(\$ M)</i>
Other											
Avionics	16	118.984	36.150	40.944	39.722	3.483	-	-	-	Continuing	Continuing
Airframe	14	195.881	54.226	61.417	59.622	5.224	-	-	-	Continuing	Continuing
<i>Total: Other</i>		314.865	90.376	102.361	99.344	8.707	-	-	-	Continuing	Continuing
Total Advance Procurement/Obligation Authority		314.865	90.376	102.361	99.344	8.707	-	-	-	Continuing	Continuing

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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB 2016 Army						Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 01 / 20		P-1 Line Item Number / Title: A05101 / CH-47 Helicopter			P-3a Number / Title: A05105 / CH-47 SLEP		
		FY 2016					
Cost Elements	QPA <i>(Each)</i>	Production Leadtime <i>(Months)</i>	Unit Cost <i>(\$ K)</i>	Contract Forecast Date	2016 Qty <i>(Each)</i>	For FY	Total Cost Request <i>(\$ M)</i>
Other							
Avionics	1	-	1,471.000	Feb 2016	27		39.722
Airframe	1	-	2,208.000	Feb 2016	27		59.622
<i>Total: Other</i>							99.344
Total Advance Procurement/Obligation Authority							99.344

Description:
N/A

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	25.313	97.543	8.700	106.243	45.339	20.288	3.421	3.487	-	204.091
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	25.313	97.543	8.700	106.243	45.339	20.288	3.421	3.487	-	204.091
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	25.313	97.543	8.700	106.243	45.339	20.288	3.421	3.487	-	204.091
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	3,035.514	-	3,035.514	-	-	-	-	-	480.214

Description:

Funds in this program were realigned beginning in FY15 from the shared MQ-1 Payload-UAS funding line (SSN A00020) for more efficient, effective program management. The funds were realigned into a new shared parent SSN, MQ-1 Payloads (MIP) (SSN A01001), which includes the MQ-1 sensor payloads: Synthetic Aperture Radar/Moving Target Indicator (SAR/MTI) (SSN A01003), Signal Intelligence (SIGINT) (SSN A01004), and Common Sensor Payload Full Motion Video (CSP FMV) (SSN A01005).

MQ-1 Payload (MIP) (A01001) budget line is shared between multiple Payload programs and two Program Managers (PM Terrestrial Sensors & PM Sensors - Aerial Intelligence). These Payload programs support the Army's transformation by procuring Reconnaissance, Surveillance and Target Acquisition (RSTA) and Intelligence, Surveillance and Reconnaissance (ISR) payload systems for Brigade Combat Teams, Divisions, and Corps Unmanned Aircraft Systems (UAS). This is in accordance with Headquarters Department of the Army (HQDA) and Training and Doctrine Command (TRADOC) UAS priorities. Common Sensor Payload (CSP), Small Tactical Radar - Lightweight (STARLite), and Tactical Signals Intelligence (SIGINT) Payload (TSP) are principal payloads for the Gray Eagle UAS. The Army Acquisition Objective (AAO) for STARLite and CSP is equivalent to aircraft/platform quantities, one system per Gray Eagle UAS - AAO is commensurate with aircraft quantity (one STARLite and one CSP payload per aircraft). The AAO for TSP is 95 systems.

CSP Electro Optical / Infra Red / Laser Designator (EO/IR/LD) provides Full Motion Video (FMV) in both the Electro Optical and Mid Wave IR spectrums with day/night capability to collect and display continuous imagery with the ability to designate targets of interest for attack by laser guided precision weapons in Standard Definition (SD) as well as High Definition (HD) for a select subset of Gray Eagle platforms. CSP is the EO/IR/LD sensor for Gray Eagle UAS which supports force applications, battlespace awareness, force protection, and net-centric operations across the battlefield to provide wide area, near real time RSTA capabilities. Additional initiatives will continue to focus on the transition of technologies directly supporting emerging requirements and the Army's Current and Future Force. CSP is a KPP (Key Performance Parameter) for the Gray Eagle UAS to include the Combat Aviation Brigade (CAB), US Army Special Operations Aviation Command (ARSOAC) and Aerial Exploitation Battalion (AEB) companies.

Small Tactical Radar - Lightweight (STARLite) SAR/MTI is a lightweight, high performance, all weather, multi-functional radar system for the Gray Eagle Unmanned Aircraft System (UAS). The STARLite system provides wide area, near real time RSTA capabilities. It operates throughout the UAS flight mission profile in adverse weather and through battlefield obscurants. The SAR mode generates quality images for the battlefield commander for detection, classification and location of stationary commercial wheeled vehicle-size targets. The MTI mode detects moving ground targets, to include man-sized detection, and provides location information and performs cross-cue with the Electro-Optic/Infrared (EO/IR) sensors.

The Tactical Signals Intelligence (SIGINT) Payload (TSP) is a SIGINT sensor, currently under development for the Gray Eagle that detects radio frequency (RF) emitters. The TSP system will provide a SIGINT capability to the tactical commander. The TSP system will be a modular, scalable payload using an architecture that is software reconfigurable to allow for growth and flexibility as technology, and as the adversaries use of technology changes. This flexible architecture allows for third party software applications to be integrated into the TSP system. The TSP system processing, control and data dissemination

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
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is integrated into the Distributed Common Ground System - Army (DCGS-A) via the Operational Ground Station. It supports Manned/Unmanned (MUM) teaming with Brigade Combat Team ground SIGINT Terminal Guidance (STG) teams and manned airborne assets. The TSP system improves situational awareness and shortens the targeting cycle by detecting and identifying emitters associated with high value targets (HVTs). The TSP system is capable of processing conventional signals, standard military signals, and modern signals of interest. This includes detection, recognition, identification, direction finding, and high confidence geo-location.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	25.313	97.543	8.700	106.243	45.339	20.288	3.421	3.487
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	25.313	97.543	8.700	106.243	45.339	20.288	3.421	3.487

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

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft

P-1 Line Item Number / Title:
A01001 / MQ-1 Payload (MIP)

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)
A01003 / SAR/MTI (MIP)	P-5, P-5a, P-21		- / -	- / -	- / 3.686	- / 23.490	- / -	- / 23.490
A01004 / SIGINT (MIP)	P-5, P-5a, P-21		- / -	- / -	- / 13.218	- / 47.551	- / -	- / 47.551
A01005 / CSP FMV (MIP)	P-5, P-5a, P-21		- / -	- / -	- / 8.409	- / 26.502	- / 8.700	- / 35.202
Total Gross/Weapon System Cost			- / -	- / -	- / 25.313	- / 97.543	- / 8.700	- / 106.243

*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:
 CSP: FY 2016 base procurement dollars in the amount of \$26.502 million supports the procurement of eighteen (18) CSP HD payloads, to include initial spares and attrition units in accordance with the updated Gray Eagle requirement to add an additional AEB company. Funding also supports Interim Contractor Support (ICS), initial fielding of 27 CSP (Standard Definition and High Definition) payloads.
 CSP: FY 2016 OCO procurement dollars in the amount of \$8.700 million supports the procurement of 35 Diode Pump Lasers which replace the existing fielded Flash Pump Lasers in deployed CSP's only and increases reliability.
 STARLite: FY 2016 base procurement dollars in the amount of \$23.490 Million supports the procurement of eighteen (18) additional payloads and the continued interim contractor support, and initial fielding of 27 STARLite.
 TSP: FY 2016 base procurement dollars in the amount of \$47.551 Million supports procurement of fifteen (15) TSP payloads along with initial spares and contractor logistics support.
 All Quantities are for the Active component.

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)	Item Number / Title [DODIC]: A01003 / SAR/MTI (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	3.686	23.490	-	23.490
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	3.686	23.490	-	23.490
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	3.686	23.490	-	23.490

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	1,305.000	-	1,305.000

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
STARLite System ^(t)	-	-	-	-	-	-	-	-	-	989.000	18	17.802	-	-	-	989.000	18	17.802
Spares	-	-	-	-	-	-	-	-	-	-	-	0.989	-	-	-	-	-	0.989
STARLite PMO Support	-	-	-	-	-	-	-	-	-	-	-	1.618	-	-	-	-	-	1.618
Engineering	-	-	-	-	-	-	-	-	1.891	-	-	1.183	-	-	-	-	-	1.183
ICS/Initial Fielding Support	-	-	-	-	-	-	-	-	1.795	-	-	1.898	-	-	-	-	-	1.898
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	3.686	-	-	23.490	-	-	-	-	-	23.490
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	3.686	-	-	23.490	-	-	-	-	-	23.490
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	3.686	1,305.000	-	23.490	-	-	-	1,305.000	-	23.490

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	3.686	23.490	-	23.490
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	3.686	23.490	-	23.490

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)	Item Number / Title [DODIC]: A01003 / SAR/MTI (MIP)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
STARLite System ^(†)		2016	Northrop Grumman / Linthicum	C / IDIQ	APG ACC	Jan 2016	Mar 2017	18	989.000	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)	Item Number / Title [DODIC]: A01003 / SAR/MTI (MIP)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
STARLite System																															
	1	2016	ARMY	18	-	18				A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)	Item Number / Title [DODIC]: A01003 / SAR/MTI (MIP)
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MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Northrop Grumman - Linthicum	8	12	24	-	-	-	-	-	-	4	14	18

Remarks:

Production rates are monthly.

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

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

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)	Item Number / Title [DODIC]: A01004 / SIGINT (MIP)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	13.218	47.551	-	47.551
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	13.218	47.551	-	47.551
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	13.218	47.551	-	47.551

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	3,170.067	-	3,170.067

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
TSP Systems ⁽¹⁾	-	-	-	-	-	-	2,400.000	2	4.800	1,723.000	15	25.845	-	-	-	1,723.000	15	25.845
TSP Engineering Change Proposals	-	-	-	-	-	-	-	-	0.390	-	-	-	-	-	-	-	-	-
TSP Contractor PMO/System Engineering	-	-	-	-	-	-	-	-	1.808	-	-	1.190	-	-	-	-	-	1.190
TSP Government PMO/System Engineering	-	-	-	-	-	-	-	-	2.900	-	-	3.099	-	-	-	-	-	3.099
TSP System Test and Evaluation	-	-	-	-	-	-	-	-	1.420	-	-	5.890	-	-	-	-	-	5.890
TSP Data/Technical Data Package	-	-	-	-	-	-	-	-	0.310	-	-	1.750	-	-	-	-	-	1.750
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	11.628	-	-	37.774	-	-	-	-	-	37.774
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	11.628	-	-	37.774	-	-	-	-	-	37.774
Logistics Cost																		
Recurring Cost																		
TSP Initial Spares	-	-	-	-	-	-	-	-	1.590	-	-	7.577	-	-	-	-	-	7.577
Interim Contractor Logistic Support	-	-	-	-	-	-	-	-	-	-	-	2.200	-	-	-	-	-	2.200
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	1.590	-	-	9.777	-	-	-	-	-	9.777
<i>Subtotal: Logistics Cost</i>	-	-	-	-	-	-	-	-	1.590	-	-	9.777	-	-	-	-	-	9.777

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Exhibit P-5, Cost Analysis: PB 2016 Army												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10						P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)						Item Number / Title [DODIC]: A01004 / SIGINT (MIP)					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	13.218	3,170.067	-	47.551	-	-	-	3,170.067	-	47.551

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	13.218	47.551	-	47.551
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	13.218	47.551	-	47.551

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)	Item Number / Title [DODIC]: A01004 / SIGINT (MIP)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
TSP Systems ^(†)		2015	BAE Systems / Nashua	SS / IDIQ	ACC APG	Mar 2015	Mar 2016	2	2,400.000	Y		
TSP Systems ^(†)		2016	BAE Systems / Nashua	SS / IDIQ	ACC APG	May 2016	May 2017	15	1,723.000	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)	Item Number / Title [DODIC]: A01004 / SIGINT (MIP)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
TSP Systems																															
	1	2015	ARMY (XIII)	2	-	2																									
	1	2016	ARMY (XIV)	15	-	15																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)	Item Number / Title [DODIC]: A01004 / SIGINT (MIP)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018													
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
TSP Systems																															
1		2015	ARMY (XIII)	2	2	-																									
1		2016	ARMY (XIV)	15	-	15	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	2	2	2							
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army								Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)				Item Number / Title [DODIC]: A01004 / SIGINT (MIP)				
		Production Rates (Each / Month)			Procurement Leadtime (Months)							
MFR Ref #	MFR Name - Location	MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial			Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	BAE Systems - Nashua	1	12	24	3	9	12	21	-	6	12	18

Remarks:
Admin lead time is 6 months after Oct 1, however, FY16 buy is projected in May 16 after successful Mar 16 IOT&E.

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

Service/Agency Suffixes:
(XIII) Base
(XIV) Base

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Exhibit P-5, Cost Analysis: PB 2016 Army						Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10			P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)			Item Number / Title [DODIC]: A01005 / CSP FMV (MIP)		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:				
Resource Summary			Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (<i>Units in Each</i>)			-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)			-	-	8.409	26.502	8.700	35.202
Less PY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)			-	-	8.409	26.502	8.700	35.202
Plus CY Advance Procurement (<i>\$ in Millions</i>)			-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)			-	-	8.409	26.502	8.700	35.202
<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 Thousands</i>)			-	-	-	1,005.771	-	1,005.771

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
CSP HD Procurement ^(†)	-	-	-	-	-	-	-	-	-	1,098.000	12	13.176	-	-	-	1,098.000	12	13.176
CSP HD Initial Spares ^(†)	-	-	-	-	-	-	-	-	-	1,098.000	6	6.588	-	-	-	1,098.000	6	6.588
CSP Diode Pump Laser	-	-	-	-	-	-	-	-	-	-	-	-	248.572	35	8.700	248.572	35	8.700
CSP HD Platform Retrofit/Upgrades	-	-	-	-	-	-	-	-	2.810	-	-	-	-	-	-	-	-	-
CSP PMO Support	-	-	-	-	-	-	-	-	0.488	-	-	0.345	-	-	-	-	-	0.345
CSP Interim Contractor Support (SD)	-	-	-	-	-	-	-	-	3.101	-	-	3.194	-	-	-	-	-	3.194
CSP Interim Contractor Support (HD)	-	-	-	-	-	-	-	-	-	-	-	1.559	-	-	-	-	-	1.559
CSP Initial Fielding Support	-	-	-	-	-	-	-	-	2.010	-	-	1.640	-	-	-	-	-	1.640
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	8.409	-	-	26.502	-	-	8.700	-	-	35.202
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	8.409	-	-	26.502	-	-	8.700	-	-	35.202
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	8.409	1,005.771	-	26.502	-	-	8.700	1,005.771	-	35.202

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Exhibit P-5, Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)	Item Number / Title [DODIC]: A01005 / CSP FMV (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	8.409	26.502	8.700	35.202
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	8.409	26.502	8.700	35.202

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)	Item Number / Title [DODIC]: A01005 / CSP FMV (MIP)
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
CSP HD Procurement ^(†)		2016	Raytheon / McKinney	C / FFP	ACC, APG	Mar 2016	Mar 2017	12	1,098.000	N		
CSP HD Initial Spares ^(†)		2016	Raytheon / McKinney	C / FFP	ACC, APG	Mar 2016	Mar 2017	6	1,098.000	N		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)	Item Number / Title [DODIC]: A01005 / CSP FMV (MIP)
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018											Fiscal Year 2019														
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018											Calendar Year 2019													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
CSP HD Procurement																															
	1	2016	ARMY	12	7	5	1	1	1	1	1																		-		
CSP HD Initial Spares																															
	2	2016	ARMY	6	6	-																							-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A01001 / MQ-1 Payload (MIP)	Item Number / Title [DODIC]: A01005 / CSP FMV (MIP)
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MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)								
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Raytheon - McKinney	1	24	125	-	-	-	-	-	-	3	12	15
2	Raytheon - McKinney	1	24	125	-	-	-	-	-	-	3	12	15

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

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

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A00020 / MQ-1 Payload - UAS
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements: 0305204A
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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>	-	28	-	-	-	-	-	-	-	-	-	28
Gross/Weapon System Cost <i>(\$ in Millions)</i>	482.094	97.781	-	-	-	-	-	-	-	-	-	579.875
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	482.094	97.781	-	-	-	-	-	-	-	-	-	579.875
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	482.094	97.781	-	-	-	-	-	-	-	-	-	579.875

(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 Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	3,492.179	-	-	-	-	-	-	-	-	-	20,709.821

Description:

Funds in this program were realigned, beginning in FY15, to a new shared parent SSN, MQ-1 Payloads (MIP) (SSN A01001), which includes the MQ-1 sensor payloads: Synthetic Aperture Radar Moving Target Indicator (SAR/MTI) (SSN A01003), Signal Intelligence (SIGINT) (SSN A01004), and Common Sensor Payload Full Motion Video (CSP FMV) (SSN A01005), for more efficient, effective program management.

MQ-1 Payload Unmanned Aircraft Systems (UAS) (A00020) budget line is shared between multiple Payload programs and two Program Managers (PM Terrestrial Sensors & PM Sensors - Aerial Intelligence). These Payload programs support the Army's transformation by procuring Reconnaissance, Surveillance and Target Acquisition (RSTA) and Intelligence, Surveillance and Reconnaissance (ISR) payload systems for Brigade Combat Teams, Divisions, and Corps Unmanned Aircraft Systems (UAS). This is in accordance with Headquarters Department of the Army (HQDA) and Training and Doctrine Command (TRADOC) UAS priorities. Small Tactical Radar - Lightweight (STARLite), CSP, and Tactical Signals Intelligence (SIGINT) Payload (TSP) are principal payloads for the Gray Eagle UAS. The Army Acquisition Objective (AAO) for STARLite and CSP is equivalent to aircraft/platform quantities, one system per Gray Eagle UAS - AAO is commensurate with aircraft quantity (one STARLite and one CSP payload per aircraft).

Small Tactical Radar - Lightweight (STARLite) SAR/MTI is a lightweight, high performance, all weather, multi-functional radar system for the Gray Eagle Unmanned Aircraft System (UAS). The STARLite system provides wide area, near real time RSTA capabilities. It operates throughout the UAS flight mission profile in adverse weather and through battlefield obscurants. The SAR mode generates quality images for the battlefield commander for detection, classification and location of stationary commercial wheeled vehicle-size targets. The MTI mode detects moving ground targets, to include man-sized detection, and provides location information and performs cross-cue with the Electro-Optic/Infrared (EO/IR) sensors.

Common Sensor Payload (CSP) - Electro Optical / Infra Red / Laser Designator (EO/IR/LD) provides FMV in both the Electro Optical and Mid Wave IR spectrums with day/night capability to collect and display continuous imagery with the ability to designate targets of interest for attack by laser guided precision weapons in Standard Definition (SD) as well as High Definition (HD) for select number of Gray Eagle platforms. It is the EO/IR/LD sensor for Gray Eagle UAS which supports force applications, battlespace awareness, force protection, and net-centric operations across the battlefield to provide wide area, near real time RSTA capabilities. Additional initiatives will continue to focus on the transition of technologies directly supporting emerging requirements and the Army's Current and Future Force. CSP is being procured for the Gray Eagle UAS program and has potential application to other platforms.

The Tactical Signals Intelligence (SIGINT) Payload (TSP) is a SIGINT sensor, currently under development for the Gray Eagle that detects radio frequency (RF) emitters. The TSP system will provide a SIGINT capability to the tactical commander. The TSP system will be a modular, scalable payload using an architecture that is software reconfigurable to allow for growth and flexibility as technology, and as the adversaries use of technology changes. This flexible architecture allows for third party software applications to be integrated into the TSP system. The TSP system processing, control and data dissemination is integrated into the Distributed Common Ground System - Army (DCGS-A) via the Operational Ground Station. It supports Manned/Unmanned (MUM) teaming with Brigade Combat Team ground SIGINT Terminal Guidance (STG) teams and manned airborne assets. The TSP system improves situational awareness and shortens the targeting cycle by detecting and identifying emitters associated with high value

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A00020 / MQ-1 Payload - UAS
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements: 0305204A
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targets (HVTs). The TSP system is capable of processing conventional signals, standard military signals, and modern signals of interest. This includes detection, recognition, identification, direction finding, and high confidence geo-location.

The Army Acquisition Objective for TSP is 95 systems.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	28	-	-	-	-	-	-	-	-
	Total Obligation Authority	97.781	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	28	-	-	-	-	-	-	-	-
	Total Obligation Authority	97.781	-	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A00020 / MQ-1 Payload - UAS
--	---

ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements: 0305204A
---	---	---

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)					
A00020 / MQ-1 Payload - UAS	P-5, P-5a, P-21		- / 482.094	28 / 97.781	- / -	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 482.094	28 / 97.781	- / -	- / -	- / -	- / -

*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:
 No FY16 Funding exists in this line.

All Quantities are for the Active component

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Exhibit P-5, Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A00020 / MQ-1 Payload - UAS	Item Number / Title [DODIC]: A00020 / MQ-1 Payload - UAS
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	-	28	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	482.094	97.781	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	482.094	97.781	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	482.094	97.781	-	-	-	-

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	3,492.179	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
CSP SD Hardware	-	-	180.331	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSP HD Hardware ^(†)	-	-	-	1,088.250	8	8.706	-	-	-	-	-	-	-	-	-	-	-	-
CSP HD Platform Retrofit	-	-	-	-	-	5.283	-	-	-	-	-	-	-	-	-	-	-	-
CSP PMO Support	-	-	3.500	-	-	2.030	-	-	-	-	-	-	-	-	-	-	-	-
CSP System Test & Eval	-	-	0.588	-	-	0.450	-	-	-	-	-	-	-	-	-	-	-	-
CSP SD Initial Spares	-	-	10.794	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CSP HD Initial Spares	-	-	-	-	-	6.529	-	-	-	-	-	-	-	-	-	-	-	-
CSP Interim Contractor Support	-	-	5.977	-	-	0.304	-	-	-	-	-	-	-	-	-	-	-	-
CSP Initial Fielding Support	-	-	-	-	-	1.500	-	-	-	-	-	-	-	-	-	-	-	-
CSP Depot Facilitization	-	-	6.000	-	-	4.377	-	-	-	-	-	-	-	-	-	-	-	-
STARLite Hardware ^(†)	-	-	236.383	803.375	8	6.427	-	-	-	-	-	-	-	-	-	-	-	-
STARLite PMO Support	-	-	3.500	-	-	1.616	-	-	-	-	-	-	-	-	-	-	-	-
Program Management/ Eng Support	-	-	0.276	-	-	1.000	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Changes	-	-	1.956	-	-	1.771	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10		P-1 Line Item Number / Title: A00020 / MQ-1 Payload - UAS
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
System Test & Eval	-	-	0.588	-	-	2.028	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares	-	-	11.369	-	-	3.213	-	-	-	-	-	-	-	-	-	-	-	-
Initial Fielding Support	-	-	-	-	-	3.168	-	-	-	-	-	-	-	-	-	-	-	-
Depot Facilitization	-	-	6.000	-	-	8.878	-	-	-	-	-	-	-	-	-	-	-	-
TSP Non recurring Production	-	-	14.832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TSP Airborne Pods ^(†)	-	-	-	2,127.500	12	25.530	-	-	-	-	-	-	-	-	-	-	-	-
TSP Engineering Changes	-	-	-	-	-	0.380	-	-	-	-	-	-	-	-	-	-	-	-
TSP Contractor Program Mgmt/ Eng Support	-	-	-	-	-	2.901	-	-	-	-	-	-	-	-	-	-	-	-
TSP Government PMO/Engineering Support	-	-	-	-	-	3.340	-	-	-	-	-	-	-	-	-	-	-	-
TSP System Test & Eval	-	-	-	-	-	5.340	-	-	-	-	-	-	-	-	-	-	-	-
TSP Data	-	-	-	-	-	2.960	-	-	-	-	-	-	-	-	-	-	-	-
TSP Initial Spares	-	-	-	-	-	0.050	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	<i>482.094</i>	-	-	<i>97.781</i>	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	<i>482.094</i>	-	-	<i>97.781</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	482.094	3,492.179	28	97.781	-	-	-	-	-	-	-	-	-	-	-	-

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	28	-	-	-	-
	Total Obligation Authority	97.781	-	-	-	-
Total:	Quantity	28	-	-	-	-
Secondary Distribution	Total Obligation Authority	97.781	-	-	-	-

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A00020 / MQ-1 Payload - UAS	Item Number / Title [DODIC]: A00020 / MQ-1 Payload - UAS
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
CSP HD Hardware ^(†)		2014	Raytheon / McKinney, TX	C / IDIQ	CECOM, APG	Mar 2014	Mar 2015	8	1,088.250	N		
STARLite Hardware ^(†)		2014	Northrop Grumman / Linthicum, MD	SS / FFP	CECOM, APG	Apr 2014	Jun 2015	8	803.375			
TSP Airborne Pods ^(†)		2014	BAE Systems / Nashua, NH	SS / IDIQ	CECOM, APG	Jun 2014	Nov 2015	12	2,127.500	Y		

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A00020 / MQ-1 Payload - UAS	Item Number / Title [DODIC]: A00020 / MQ-1 Payload - UAS
--	---	--

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
CSP HD Hardware																															
	1	2014	ARMY (XV)	8	-	8																									
STARLite Hardware																															
	2	2014	ARMY (XVI)	8	-	8																									
TSP Airborne Pods																															
	3	2014	ARMY (XVII)	12	-	12																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A00020 / MQ-1 Payload - UAS	Item Number / Title [DODIC]: A00020 / MQ-1 Payload - UAS
--	---	--

MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Raytheon - McKinney, TX	1	24	125	-	-	-	-	-	6	12	18
2	Northrop Grumman - Linthicum, MD	12	24	60	-	-	-	-	-	6	12	18
3	BAE Systems - Nashua, NH	1	12	24	-	9	17	26	-	-	-	-

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

Service/Agency Suffixes:
 (XV) BASE
 (XVI) BASE
 (XVII) BASE

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AZ2000 / Guardrail Mods (MIP)
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Resource Summary	Prior Years	Program Elements for Code B Items:					Other Related Program Elements:					
		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>)	1,406.918	10.262	14.182	-	-	-	-	-	-	-	-	1,431.362
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	1,406.918	10.262	14.182	-	-	-	-	-	-	-	-	1,431.362
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,406.918	10.262	14.182	-	-	-	-	-	-	-	-	1,431.362

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Guardrail Common Sensor (GRCS), IAW the Aerial Layer 2020 Strategy, is a tactical fixed-wing, airborne, Signals Intelligence (SIGINT) collection and precision targeting location system. The GRCS systems are fielded to four Aerial Exploitation Battalions (AEBs) which are under the Intelligence and Security Command (INSCOM). GRCS provides near-real-time information to tactical commanders in the joint task force area supporting a full spectrum of operations (close in and deep look collections). It collects low-, mid-, and high-band radio signals; identifies and classifies them; determines source location; and provides near-real-time reporting, ensuring information dominance to commanders.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.262	14.182	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.262	14.182	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AZ2000 / Guardrail Mods (MIP)
--	---

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
AZ2000 / Guardrail MODS MIP (0)	P-3a		- / 1,406.918	- / 10.262	- / 14.182	- / -	- / -	- / -
Total Gross/Weapon System Cost			- / 1,406.918	- / 10.262	- / 14.182	- / -	- / -	- / -
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
AZ2000 / Guardrail MODS MIP (0)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 1,431.362
Total Gross/Weapon System Cost			- / -	- / 1,431.362				

*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:

FY15 Base procurement funding (\$14.2M) provides recurring and non-recurring engineering, upgrades three (3) MX-15HDI cameras, and fields one Full Motion Video (FMV) aircraft.

AZ2000 GRCS line transitioned to AZ2052 in FY16.

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Exhibit P-3a, Individual Modification: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AZ2000 / Guardrail Mods (MIP)	Modification Number / Title: AZ2000 / Guardrail MODS MIP
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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>)	1,406.918	10.262	14.182	-	-	-	-	-	-	-	-	1,431.362
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	1,406.918	10.262	14.182	-	-	-	-	-	-	-	-	1,431.362
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,406.918	10.262	14.182	-	-	-	-	-	-	-	-	1,431.362

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The above represents Guardrail efforts over time. Individual efforts are described in detail under corresponding modifications.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.262	14.182	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	10.262	14.182	-	-	-	-	-	-	-

Development Status/Major Development Milestones

Date	Title	Description
Aug 2012	None	N/A

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: AZ2000 / Guardrail Mods (MIP)					Modification Number / Title: AZ2000 / Guardrail MODS MIP			
Models of Systems Affected: 1-14				Modification Type: 0				Related RDT&E PEs:					
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>					
Procurement													
Modification Item 1 of 2: Full Motion Video (FMV)													
A Kits													
Recurring													
Kit Quantity (Camera Upgrades)	- / -	2 / 0.754	2 / 0.754	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 1.508	
Fielding/Training	- / -	- / -	1 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.400	
Integration & Test	- / -	- / 1.046	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.046	
PM Costs	- / -	- / 0.100	- / 1.256	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.356	
Spares (Cameras)	- / -	- / -	5 / 1.885	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.885	
Subtotal: Recurring	- / -	- / 1.900	- / 4.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.195	
Subtotal: Full Motion Video (FMV)	- / -	2 / 1.900	8 / 4.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 6.195	
Modification Item 2 of 2: Enhanced Situational Awareness (ESA) Subsystem													
A Kits													
Recurring													
NRE ESA	0 / 139.297	- / -	- / 0.245	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 139.542	
Recur ESA B-Kit	0 / 89.548	- / -	14 / 1.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 91.298	
Recur A-Kit (Racks/Cable)	0 / 54.385	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 54.385	
Recur A-Kit (Airframe)	0 / 60.648	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 60.648	
Recur Nav/Timing	0 / 20.848	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 20.848	
NRE Data Link Air	0 / 25.663	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 25.663	
Recur Data Link Ground	0 / 1.830	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.830	
Spare ESA B-Kit	0 / 12.323	- / -	6 / 0.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 13.073	
Eng Lab Asset ESA B-Kit	0 / 4.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.900	
Aircraft Upgrade Cockpit	0 / 33.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 33.101	
System Integration	0 / 29.200	- / -	- / 1.367	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 30.567	
GATM	0 / 3.480	- / 4.300	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.780	
Sys Assessment/Test Spt	0 / 18.602	- / 0.365	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.967	
TSGS SW Updates	- / -	- / -	- / 0.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.480	
Manual Updates	- / -	- / -	- / 0.208	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.208	
Training Supt	0 / 7.400	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.400	
Accreditation Supt	- / -	- / -	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.200	
Fielding (CHALS/ESA/HBC)	0 / 26.189	- / 1.362	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 27.551	
PM Support	0 / 77.593	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 78.593	
Production FSR support	0 / 178.246	- / 0.335	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 178.581	

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AZ2000 / Guardrail Mods (MIP)	Modification Number / Title: AZ2000 / Guardrail MODS MIP
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Models of Systems Affected: 1-14 **Modification Type: 0** **Related RDT&E PEs:**

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)											
Initial Spares Provision	0 / 3.951	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.951
<i>Subtotal: Recurring</i>	- / 787.204	- / 8.362	- / 7.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 802.566
<i>Subtotal: Enhanced Situational Awareness (ESA) Subsystem</i>	0 / 787.204	- / 8.362	20 / 7.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 802.566
<i>Subtotal: Procurement, All Modification Items</i>	0 / 787.204	2 / 10.262	28 / 11.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 808.761
Installation												
Modification Item 1 of 2: Full Motion Video (FMV)	0 / 0.000	- / -	3 / 2.887	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.887
Modification Item 2 of 2: Enhanced Situational Awareness (ESA) Subsystem	0 / 619.714	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 619.714
<i>Subtotal: Installation</i>	0 / 619.714	- / -	3 / 2.887	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 622.601
Total												
Total Cost (Procurement + Support + Installation)	1,406.918	10.262	14.182	-	1,431.362							

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AZ2000 / Guardrail Mods (MIP)	Modification Number / Title: AZ2000 / Guardrail MODS MIP

Modification Item 1 of 2: Full Motion Video (FMV)

Manufacturer Information

Manufacturer Name: CACI Inc				Manufacturer Location: .			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 18			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Jan 2014	Jul 2015					
Delivery Dates	Jul 2015	Jul 2016					

Installation Information

Method of Implementation: .

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	3 / 2.887	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.887
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	3 / 2.887	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.887

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	14
Out	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	14

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AZ2000 / Guardrail Mods (MIP)	Modification Number / Title: AZ2000 / Guardrail MODS MIP

Modification Item 2 of 2: Enhanced Situational Awareness (ESA) Subsystem

Manufacturer Information

Manufacturer Name: Northrop Grumman				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 1				Production Leadtime (in Months): 18			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Jan 2014	Jul 2015					
Delivery Dates							

Installation Information

Method of Implementation: TBD

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)											
Prior Years	0 / 0.510	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	- / 0.510
FY 2014	0 / 2.014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.014
FY 2015	0 / 0.373	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.373
FY 2016	0 / 0.323	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.323
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 616.494	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 616.494
Total	0 / 619.714	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 619.714

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14
Out	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	765.012	10.467	131.892	95.725	-	95.725	68.878	62.721	36.247	13.027	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	765.012	10.467	131.892	95.725	-	95.725	68.878	62.721	36.247	13.027	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	765.012	10.467	131.892	95.725	-	95.725	68.878	62.721	36.247	13.027	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	5,318.056	-	5,318.056	-	-	-	-	Continuing	Continuing

Description:

AZ2001 Multi Sensor ABN Recon (MIP) is the Parent Line to Airborne Reconnaissance Low - Enhanced (MIP)(ARL-E) (AZ2050). For FY16 and beyond this line continues as the Parent Line for EMARSS Payloads (MIP)(AZ2054) and Guardrail Payloads (MIP) (AZ2052),IAW the Aerial Layer 2020 Strategy.

The Enhanced Medium Altitude Reconnaissance and Surveillance System (EMARSS) Payloads will consist of Mission Equipment Packages (MEP) and Processing Exploitation & Dissemination commercial derivative equipment such as, an Electro-optical/Infrared (EO/IR) sensor with Full Motion Video (FMV), a Communications Intelligence (COMINT) collection system, an Aerial Precision Geolocation (APG) system, tactical line-of-site (LOS) and beyond line-of-site (BLOS) communications suite, two DCGS-A enabled operator workstations and a self-protection suite. Payloads integrated on platforms will include: niche capabilities such as Wide Area Aerial Surveillance (WAAS), Light Detection and Ranging (LiDAR) and improved Synthetic Aperture Radar / Moving Target Indicator (SAR/MTI) radar capability.

EMARSS will operate in direct support of tactical missions. EMARSS, integrating elements of the DCGS-A, will provide efficient response to Combat Forces with Intelligence, Surveillance and Reconnaissance (ISR) tasking.

EMARSS transitioned from A02005.

The Airborne Reconnaissance Low - Enhanced (ARL-E) program migrates some of the current ARL sensors, purchases new and reuses some purchased under a Quick Reaction Capability (QRC) program to the meet the ARL-E Capabilities Production Document (CPD) requirements. ARL-E payload procures the hardware, software, and infrastructure to rapidly install sensors in a plug and play, quick connect/disconnect, mounting system to allow the installation of various combinations of sensor-types in support of a wide-range of theater operations. Each Mission Equipment Packages (MEP) will include the following sensor suite; one (1) Communications Intelligence (COMINT) subsystem capable of supporting theater net centric geo-location efforts, two (2) High Definition Full Motion Video (FMV) sensors; one (1) Improved Synthetic Aperture Radar / Ground Moving Target Indicator (SAR/GMTI) radar subsystem OR one (1) Synthetic Aperture Radar / Dismounted Moving Target Indicator (SAR/DMTI) subsystems. All MEPs will include the infrastructure to plug and play a Hyper-spectral (HSI) Payload purchased under a QRC program. The MEP will also include one (1) set of Distributed Common Ground Station-Army (DCGS-A) workstations, one (1) set of communication equipment (mission radios, Beyond line of Site (BLOS) and Line of Site (LOS) Data links). Future Growth capabilities include: Wide-Area Aerial Surveillance (WAAS), Light Detection and Ranging (LiDAR) and Foliage Penetration Radar (FOPEN).

Funding also supports non-recurring engineering, integration, Logistics documentation, and training and test efforts. The ARL-E payload program procures the ARL MEP for enhancement of the current ARL-E system making it rapidly reconfigurable and deployable world-wide against current, new, and emerging threats.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft		P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
<p>Guardrail Common Sensor (GRCS) is a tactical fixed-wing, airborne, Signals Intelligence (SIGINT) collection and precision targeting location system. The GRCS systems are fielded to four Aerial Exploitation Battalions (AEBs) which are under the command of Information and Security Command (INSCOM). GRCS provides near-real-time information to tactical commanders in the joint task force area supporting a full spectrum of operations (close in and deep look collections). It collects low-, mid-, and high-band radio signals; identifies and classifies them; determines source location; and provides near-real-time reporting, ensuring information dominance to commanders. GR/CS uses the Mission Operations Facility (MOF) for payload tasking, data processing, and mission operations.</p> <p>GRCS has transitioned from AZ2000.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
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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)
AZ2050 / ARL Mod-In-Service (Operational)	P-3a		- / 765.010	- / 10.467	- / 131.892	- / 68.540	- / -	- / 68.540
AZ2052 / Guardrail MODS MIP (U)	P-3a		- / -	- / -	- / -	- / 13.515	- / -	- / 13.515
AZ2054 / EMARSS Payloads (MIP)	P-5		- / -	- / -	- / -	- / 13.670	- / -	- / 13.670
Total Gross/Weapon System Cost			- / 765.012	- / 10.467	- / 131.892	- / 95.725	- / -	- / 95.725

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)
AZ2050 / ARL Mod-In-Service (Operational)	P-3a		- / 48.500	- / 53.778	- / 7.668	- / 2.679	Continuing	Continuing
AZ2052 / Guardrail MODS MIP (U)	P-3a		- / 7.012	- / 5.638	- / 7.285	- / 5.896	Continuing	Continuing
AZ2054 / EMARSS Payloads (MIP)	P-5		- / 13.366	- / 3.305	- / 21.294	- / 4.452	Continuing	Continuing
Total Gross/Weapon System Cost			- / 68.878	- / 62.721	- / 36.247	- / 13.027	Continuing	Continuing

*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:

FY 2016 base funding to support the overall ARL-E and EMARSS efforts are found in the following four lines: AZ2050 ARL Payloads and AZ2054 EMARSS Payloads (per this form), and A02110 ARL SEMA Mods and A02112 EMARSS SEMA (separate form). Separate funding lines support the Army Acquisition Executive's directive, codified in the October 28, 2011 memorandum, to assign overall acquisition lead for manned airborne intelligence systems to Program Executive Officer for Aviation (PEO-AVN); and overall sensor, processing, exploitation, and dissemination responsibilities to Program Executive Officer for Intelligence, Electronic Warfare, and Sensors (PEO-IIEWS).

The purpose of AZ2050 is to procure, upgrade, test and integrate sensors; communications architecture for sensor information exploitation and dissemination; test, nonrecurring engineering, and integration in support of the ARL-E Payload program ensuring ARL-E is rapidly deployable world-wide against current, new, and emerging threats.

FY16 Base funding within AZ2050 - \$68.540 million supports the procurement of the Mission Equipment Payload (MEP) for integration on Aircraft #3 and 4. The MEP for these systems will consist of 1 set of Distributed Common Ground Station-Army (DCGS-A) workstations, 1 set of communication equipment (mission radios, Beyond line of Site (BLOS) and Line of Site (LOS) Data links), 1 COMINT subsystem, 1 Hyper spectral subsystem, 1 Vehicle and Dismount Exploitation Radar (Vader) Radar and 2 Full Motion Video (FMV) subsystems. Funding also supports non-recurring engineering, integration, and test efforts for these systems. The ARL-E payload program procures the ARL mission equipment and new communications equipment for enhancement of the current ARL system making it rapidly deployable world-wide against current, new, and emerging threats.

The purpose of AZ2054 is to procure, upgrade, test and integrate sensors; communications architecture for sensor information exploitation and dissemination; test, nonrecurring engineering, and integration in support of the following EMARSS variants: EMARSS-G (Constant Hawk & TACOP LiDAR); EMARSS-V (VaDER); EMARSS-M (Liberty Project Aircraft (LPA)); and EMARSS-S (Engineering and Manufacturing Development (EMD) systems).

FY 2016 Base procurement dollars in the amount of \$13.670 million procures Software Licenses, Interim Contractor Logistics Support, System Test & Evaluation, and Engineering Support in support of the following EMARSS variants: EMARSS-G (Constant Hawk & TACOP LiDAR); EMARSS-V (VaDER); EMARSS-M (Liberty Project Aircraft (LPA)); and EMARSS-S (Engineering and Manufacturing Development (EMD) systems).

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft		P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
FY 2016 Base procurement funding \$13.515M provides recurring and non-recurring engineering, upgrades eight (8) MX-15HDi cameras and fields of four (4) Full Motion Video (FMV) capable aircraft.		
Of the 14 aircraft, seven (7) will be fielded to the Republic of Korea (ROK), which requires FMV Mods in ROK to reduce mission impact to 3rd MI. The remaining seven (7) will be fielded to 204th MI at Fort Bliss, TX.		
AZ2052 Guardrail Payloads MIP dollars are linked to A02111 GRCS SEMA Mods (MIP) dollars of \$4.019 million procurement funding.		
All funding is in Active Component.		

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Exhibit P-3a, Individual Modification: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)	Modification Number / Title: AZ2050 / ARL Mod-In-Service
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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>)	765.010	10.467	131.892	68.540	-	68.540	48.500	53.778	7.668	2.679	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	765.010	10.467	131.892	68.540	-	68.540	48.500	53.778	7.668	2.679	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	765.010	10.467	131.892	68.540	-	68.540	48.500	53.778	7.668	2.679	Continuing	Continuing

(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 Thousands</i>)	-	-	-	6,854.000	-	6,854.000	-	-	-	-	Continuing	Continuing

Description:

Mod-In-Service

Development Status/Major Development Milestones

Date	Title	Description
Sep 2015	Sensor Contract Award	
May 2017	Sensor CT/DT	
Jun 2017	First Unit Equipped	

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)					Modification Number / Title: AZ2050 / ARL Mod-In-Service			
Models of Systems Affected: ARL				Modification Type: Operational				Related RDT&E PEs:					
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)					
Procurement													
Modification Item 1 of 2: ARL Enhanced (ARL-E)													
A Kits													
Recurring													
DCGS-A Workstations	- / -	- / 0.400	3 / 6.410	2 / 4.022	- / -	2 / 4.022	1 / 2.011	- / -	- / -	- / -	Continuing	Continuing	
Upgraded MX-20HD Sensors	- / -	- / -	3 / 2.100	2 / 1.400	- / -	2 / 1.400	1 / 0.700	- / -	- / -	- / -	Continuing	Continuing	
MEP/PED System Integration Lab (SIL)	- / -	- / -	- / 8.982	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
System Test & Eval support	- / -	- / -	- / 7.883	- / 7.802	- / -	- / 7.802	- / -	- / 5.212	- / -	- / -	Continuing	Continuing	
Program Mgt	- / -	- / 0.600	- / 10.551	- / 6.169	- / -	- / 6.169	- / 3.914	- / 5.427	- / 0.619	- / 0.216	Continuing	Continuing	
Spares	- / -	- / -	- / -	- / 4.763	- / -	- / 4.763	- / -	- / 5.245	- / 2.079	- / 0.600	Continuing	Continuing	
Training and Documentation	- / -	- / -	- / 2.552	- / 0.950	- / -	- / 0.950	- / -	- / 3.046	- / 0.110	- / 0.200	Continuing	Continuing	
Field Support	- / -	- / 1.167	- / -	- / -	- / -	- / -	- / 3.871	- / 3.206	- / 0.310	- / 0.253	Continuing	Continuing	
Subtotal: Recurring	- / -	- / 2.167	- / 38.478	- / 25.106	- / -	- / 25.106	- / 10.496	- / 22.136	- / 3.118	- / 1.269	Continuing	Continuing	
Non-Recurring													
Non Recurring Engineering	- / -	- / 1.000	- / 12.372	- / 6.558	- / -	- / 6.558	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Non-Recurring	- / -	- / 1.000	- / 12.372	- / 6.558	- / -	- / 6.558	- / -	- / -	- / -	- / -	Continuing	Continuing	
B Kits													
Recurring													
Aircraft Standardization	- / -	- / -	- / 28.791	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
SAR/DMTI sensor	- / -	- / 2.500	3 / 22.750	- / -	- / -	- / -	2 / 12.200	- / -	- / -	- / -	Continuing	Continuing	
Communications procurement	- / -	- / -	1 / 9.200	1 / 6.900	- / -	1 / 6.900	- / -	- / -	- / -	- / -	Continuing	Continuing	
LRR/Integration	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.220	- / -	- / -	Continuing	Continuing	
COMINT	- / -	- / -	3 / 15.600	1 / 5.300	- / -	1 / 5.300	2 / 10.820	- / -	- / -	- / -	Continuing	Continuing	
HSI upgrade	- / -	- / -	3 / 1.701	2 / 1.134	- / -	2 / 1.134	- / -	- / -	- / -	- / -	Continuing	Continuing	
Upgrade MX-20D SWIR sensors	- / -	- / -	3 / 3.000	2 / 2.000	- / -	2 / 2.000	1 / 1.000	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Recurring	- / -	- / 2.500	- / 81.042	- / 15.334	- / -	- / 15.334	- / 24.020	- / 11.220	- / -	- / -	Continuing	Continuing	
Subtotal: ARL Enhanced (ARL-E)	- / -	- / 5.667	19 / 131.892	10 / 46.998	- / -	10 / 46.998	7 / 34.516	- / 33.356	- / 3.118	- / 1.269	Continuing	Continuing	
Modification Item 2 of 2: ARL Multifunction (ARL-M)													
A Kits													
Non-Recurring													
Work Station Architecture Upgrades	- / -	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
COMINT Diamond Back Upgrades	- / -	- / 1.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
RADAR (Phoenix Eye) Upgrades	- / -	- / 1.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Communications Upgrades	- / -	- / 1.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)	Modification Number / Title: AZ2050 / ARL Mod-In-Service
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Models of Systems Affected: ARL **Modification Type:** Operational **Related RDT&E PEs:**

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)											
Program Management	- / -	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
<i>Subtotal: Non-Recurring</i>	- / -	- / 4.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
<i>Subtotal: ARL Multifunction (ARL-M)</i>	- / -	- / 4.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / 10.467	19 / 131.892	10 / 46.998	- / -	10 / 46.998	7 / 34.516	- / 33.356	- / 3.118	- / 1.269	Continuing	Continuing
Installation												
<i>Modification Item 1 of 2: ARL Enhanced (ARL-E)</i>	0 / 0.000	- / -	- / -	2 / 21.542	- / -	2 / 21.542	2 / 13.984	1 / 20.422	1 / 4.550	1 / 1.410	1 / -	8 / 61.908
<i>Modification Item 2 of 2: ARL Multifunction (ARL-M)</i>	0 / 765.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 765.010
<i>Subtotal: Installation</i>	0 / 765.010	- / -	- / -	2 / 21.542	- / -	2 / 21.542	2 / 13.984	1 / 20.422	1 / 4.550	1 / 1.410	1 / -	8 / 826.918
Total												
Total Cost (Procurement + Support + Installation)	765.010	10.467	131.892	68.540	-	68.540	48.500	53.778	7.668	2.679	Continuing	Continuing

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)	Modification Number / Title: AZ2050 / ARL Mod-In-Service

Modification Item 1 of 2: ARL Enhanced (ARL-E)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 24

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Apr 2015	Aug 2016	Aug 2017	Aug 2018	Aug 2019	
Delivery Dates		May 2018	Aug 2019	Aug 2020	Aug 2021	Aug 2023	

Installation Information

Method of Implementation: Contractor

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	2 / 21.542	- / -	2 / 21.542	- / -	- / -	- / -	- / -	- / -	2 / 21.542
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	2 / 13.984	- / -	- / -	- / -	- / -	2 / 13.984
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	1 / 20.422	- / -	- / -	- / -	1 / 20.422
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 4.550	- / -	- / -	1 / 4.550
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.410	- / -	1 / 1.410
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / -	1 / -
Total	0 / 0.000	- / -	- / -	2 / 21.542	- / -	2 / 21.542	2 / 13.984	1 / 20.422	1 / 4.550	1 / 1.410	1 / -	8 / 61.908

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	-	2	-	-	1	1	-	-	1	-	-	-	1	-	-	-	1	-	-	-	2	9
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	2	-	-	-	1	4	9

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)	Modification Number / Title: AZ2050 / ARL Mod-In-Service

Modification Item 2 of 2: ARL Multifunction (ARL-M)

Manufacturer Information

Manufacturer Name: LMIS	Manufacturer Location: Hagerstown, MD
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

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

Installation Information

Method of Implementation: Contractor

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)											
Prior Years	0 / 765.010	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 765.010
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 765.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 765.010

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

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Exhibit P-3a, Individual Modification: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)	Modification Number / Title: AZ2052 / Guardrail MODS MIP
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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>	-	-	-	13.515	-	13.515	7.012	5.638	7.285	5.896	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	-	-	13.515	-	13.515	7.012	5.638	7.285	5.896	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	13.515	-	13.515	7.012	5.638	7.285	5.896	Continuing	Continuing
<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 Thousands)</i>	-	-	-	1,689.375	-	1,689.375	-	-	-	-	Continuing	Continuing

Description:

The above represents Guardrail efforts over time. Individual efforts are described in detail under corresponding modifications.

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)					Modification Number / Title: AZ2052 / Guardrail MODS MIP			
Models of Systems Affected: See individual Mods					Modification Type: U					Related RDT&E PEs:			
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)					
Procurement													
Modification Item 1 of 2: Full Motion Video (FMV)													
A Kits													
Recurring													
Fielding/Training	- / -	- / -	- / -	- / 2.400	- / -	- / 2.400	- / 1.060	- / 1.000	- / -	- / -	Continuing	Continuing	
PM Costs	- / -	- / -	- / -	- / 1.216	- / -	- / 1.216	- / 0.637	- / 0.512	- / -	- / -	Continuing	Continuing	
Spares (Cameras)	- / -	- / -	- / -	- / 3.107	- / -	- / 3.107	- / 0.692	- / 1.224	- / -	- / -	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / 6.723	- / -	- / 6.723	- / 2.389	- / 2.736	- / -	- / -	Continuing	Continuing	
B Kits													
Recurring													
Kit Quantity (Camera Upgrades)	- / -	- / -	- / -	- / 3.016	- / -	- / 3.016	- / 0.754	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / 3.016	- / -	- / 3.016	- / 0.754	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Full Motion Video (FMV)	- / -	- / -	- / -	- / 9.739	- / -	- / 9.739	- / 3.143	- / 2.736	- / -	- / -	Continuing	Continuing	
Modification Item 2 of 2: Modernization Signal Enhancement													
A Kits													
Recurring													
Software Installation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.231	- / 3.245	Continuing	Continuing	
Accreditation	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.553	- / 0.553	Continuing	Continuing	
Test	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.450	- / 0.450	Continuing	Continuing	
Network Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.639	- / 0.635	Continuing	Continuing	
PM Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.588	- / 0.476	Continuing	Continuing	
Data	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.450	- / 0.350	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / 6.911	- / 5.709	Continuing	Continuing					
Non-Recurring													
Training	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.374	- / 0.187	Continuing	Continuing	
Subtotal: Non-Recurring	- / -	- / -	- / -	- / -	- / 0.374	- / 0.187	Continuing	Continuing					
Subtotal: Modernization Signal Enhancement	- / -	- / -	- / -	- / -	- / 7.285	- / 5.896	Continuing	Continuing					
Subtotal: Procurement, All Modification Items	- / -	- / -	- / -	- / 9.739	- / -	- / 9.739	- / 3.143	- / 2.736	- / 7.285	- / 5.896	Continuing	Continuing	
Installation													
Modification Item 1 of 2: Full Motion Video (FMV)	0 / 0.000	- / -	- / -	- / 3.776	- / -	- / 3.776	- / 3.869	- / 2.902	- / -	- / -	- / -	- / 10.547	
Subtotal: Installation	0 / 0.000	- / -	- / -	- / 3.776	- / -	- / 3.776	- / 3.869	- / 2.902	- / -	- / -	- / -	- / 10.547	
Total													

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)						Modification Number / Title: AZ2052 / Guardrail MODS MIP			
Models of Systems Affected: See individual Mods				Modification Type: U				Related RDT&E PEs:					
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Total Cost (Procurement + Support + Installation)	-	-	-	13.515	-	13.515	7.012	5.638	7.285	5.896	Continuing	Continuing	

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)	Modification Number / Title: AZ2052 / Guardrail MODS MIP

Modification Item 1 of 2: Full Motion Video (FMV)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Jul 2016	Jul 2017	Jul 2018		
Delivery Dates			Jun 2017	Jul 2018	Jul 2019		

Installation Information

Method of Implementation: TBD

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / 13.776	- / -	- / 13.776	- / -	- / -	- / -	- / -	- / -	- / 13.776
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 13.869	- / -	- / -	- / -	- / -	- / 13.869
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.902	- / -	- / -	- / -	- / 12.902
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / 13.776	- / -	- / 13.776	- / 13.869	- / 12.902	- / -	- / -	- / -	- / 10.547

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	3	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	14
Out	1	-	-	-	-	-	-	-	-	1	1	2	2	-	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	14

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Exhibit P-3a, Individual Modification: PB 2016 Army					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10			P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)			Modification Number / Title: AZ2052 / Guardrail MODS MIP	
Modification Item 2 of 2: Modernization Signal Enhancement							
Manufacturer Information							
Manufacturer Name: TBD				Manufacturer Location: TBD			
Administrative Leadtime (<i>in Months</i>):				Production Leadtime (<i>in Months</i>):			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Modernization Signal Enhancement					Installation Quantity: 0		

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Exhibit P-5, Cost Analysis: PB 2016 Army							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)				Item Number / Title [DODIC]: AZ2054 / EMARSS Payloads (MIP)				

ID Code (A=Service Ready, B=Not Service Ready) :							MDAP/MAIS Code:					
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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>	-	-	-	13.670	-	13.670	13.366	3.305	21.294	4.452	Continuing	Continuing
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	-	-	13.670	-	13.670	13.366	3.305	21.294	4.452	Continuing	Continuing
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	13.670	-	13.670	13.366	3.305	21.294	4.452	Continuing	Continuing

(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 Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Aircraft & MEP Integ for QRC to POR (V)	-	-	-	-	-	-	-	-	-	9,500.000	1	9.500	-	-	-	9,500.000	1	9.500
Aircraft & MEP Testing (V)	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
Initial Spares & Repair	-	-	-	-	-	-	-	-	-	-	-	1.200	-	-	-	-	-	1.200
PMO and SETA Support	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-	1.000
Test and Engineering Support	-	-	-	-	-	-	-	-	-	-	-	0.970	-	-	-	-	-	0.970
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	13.670	-	-	-	-	-	13.670
<i>Subtotal: Flyaway Cost</i>	-	-	-	-	-	-	-	-	-	-	-	13.670	-	-	-	-	-	13.670
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	13.670	-	-	-	-	-	13.670

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		

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Exhibit P-5, Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AZ2001 / Multi Sensor ABN Recon (MIP)	Item Number / Title [DODIC]: AZ2054 / EMARSS Payloads (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Cost Elements	FY 2017			FY 2018			FY 2019			FY 2020			To Complete			Total Cost		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Aircraft & MEP Integ for QRC to POR (V)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aircraft & MEP Testing (V)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares & Repair	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PMO and SETA Support	-	-	13.366	-	-	3.305	-	-	21.294	-	-	4.452	-	-	-	-	-	-
Test and Engineering Support	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	13.366	-	-	3.305	-	-	21.294	-	-	4.452	-	-	-	-	-	-
<i>Subtotal: Flyaway Cost</i>	-	-	13.366	-	-	3.305	-	-	21.294	-	-	4.452	-	-	-	-	-	-
Gross/Weapon System Cost	-	-	13.366	-	-	3.305	-	-	21.294	-	-	4.452	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA6605 / AH-64 MODS
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ID Code (A=Service Ready, B=Not Service Ready) :		Program Elements for Code B Items:					Other Related Program Elements:					
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	8,116.850	48.487	181.869	116.153	-	116.153	133.846	177.919	145.955	134.063	115.020	9,170.162
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	8,116.850	48.487	181.869	116.153	-	116.153	133.846	177.919	145.955	134.063	115.020	9,170.162
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	8,116.850	48.487	181.869	116.153	-	116.153	133.846	177.919	145.955	134.063	115.020	9,170.162
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The AH-64 MODS (AA6606) program provides for modernization of the fielded AH-64D/AH-64E Apache fleet. AH-64D/AH-64E is a tandem cockpit, twin engine, single main rotor attack helicopter. The Apache aircraft incorporates the Longbow weapon system and provides the U.S. Army with significant target acquisition and firepower effectiveness, survivability, lethality, and fighting capabilities even during adverse weather conditions. The Apache is equipped with the Fire Control Radar/Radar Frequency Interferometer (FCR/RFI) mission kit and Fire and Forget Longbow HELLFIRE missiles. The Modernized Target Acquisition Designator Sight (MTADS) assembly is an Electro-Optical system that consists of a Day television (DTV), sensor, a Forward Looking Infrared (FLIR) sensor for day and night visibility as well as limited adverse weather operations, a Laser Spot Tracker (LST), and Laser Rangefinder/Designator (LRFD). The Modernized Pilot Night Vision Sensor (M-PNVIS) is a FLIR system which allows Nap-of-Earth flight operations at night by the pilot independent of the co-pilot/gunner's FLIR. The Apache is armed with the Hellfire Antitank Missile, 2.75 inch rockets and a 30mm gun capable of defeating armor.

The AH-64 Mods Program allows for near-term operationally driven improvements to the Apache fleet, focusing on deployment lessons learned, reliability improvements, and solving obsolescence issues. Improvements will occur to the Airframe, Armament, Communications, Manned / Unmanned Teaming, Navigation, Sensors, Survivability, Support Elements, and Training Systems. Examples of modifications include Selected Component Recapitalization, Airframe and Sensor Obsolescence upgrades, procurement of Modernized Day Sensor Assembly Phase II components, initial procurement of Modernized Radio-Frequency Interferometer (M-RFI), Software upgrades, Condition Based Maintenance (CBM), Trainer upgrades, and Computer/Processing and Data Display and Control upgrades. Approximately half the Apache fleet will be non AH-64E configured past 2020. These modernization efforts are required to ensure the Longbow Apache remains a ready and relevant Soldier asset.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	48.487	181.869	116.153	-	116.153	133.846	177.919	145.955	134.063
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	48.487	181.869	116.153	-	116.153	133.846	177.919	145.955	134.063

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA6605 / AH-64 MODS
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
AA6606 / AH-64 Modifications (Operational & Reliability Improvements and Resolve Obsolescence Issues)	P-3a		- / 8,116.850	- / 48.487	- / 181.869	- / 116.153	- / -	- / 116.153
Total Gross/Weapon System Cost			- / 8,116.850	- / 48.487	- / 181.869	- / 116.153	- / -	- / 116.153
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
AA6606 / AH-64 Modifications (Operational & Reliability Improvements and Resolve Obsolescence Issues)	P-3a		- / 133.846	- / 177.919	- / 145.955	- / 134.063	- / 115.020	- / 9,170.162
Total Gross/Weapon System Cost			- / 133.846	- / 177.919	- / 145.955	- / 134.063	- / 115.020	- / 9,170.162

*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:
 FY16 Base funding supports modification and service life extension efforts for the Airframe, Armament, Mission Command, Sensors, Survivability, Support Elements, Training Systems, and Manned/Unmanned Teaming.

All COMPO 1 Active

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Exhibit P-3a, Individual Modification: PB 2016 Army							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA6605 / AH-64 MODS				Modification Number / Title: AA6606 / AH-64 Modifications				

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>)	8,116.850	48.487	181.869	116.153	-	116.153	133.846	177.919	145.955	134.063	115.020	9,170.162
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	8,116.850	48.487	181.869	116.153	-	116.153	133.846	177.919	145.955	134.063	115.020	9,170.162
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	8,116.850	48.487	181.869	116.153	-	116.153	133.846	177.919	145.955	134.063	115.020	9,170.162

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Airframe includes modifications to the Structural Subsystems, Propulsion/Drive/Rotor Systems, Health Monitoring System (CBM), and Recap Support/Kits. Structural Subsystems modifications include improvements to the assembled structural and aerodynamic components of the air vehicle to include the fuselage and associated manual flight control systems, rotor equipment, landing gear and associated equipment, environmental controls, racks, mounts, intersystem cables and distribution boxes. Propulsion/Drive/Rotor Systems together with Engine Electronic Digital Engine Control Unit (EDECU) and Common Hydro-Mechanical Unit (CHMU) provides the capability to carry a heavier combat payload and allow for enhanced performance in high-altitude, hot climates. Landing Gear improvements (High Performance Shock Struts (HPSS)) will improve the aircraft crash survivability and allows for a heavier aircraft with greater combat loads. The Health Monitoring System is associated with CBM support concept and the expansion of the Modernized Signal Processing Unit (MSPU) capabilities, which will continue to evolve, reduce ownership cost and improve the maintenance posture and burden of the Soldier.

Mission Command includes modifications and/or upgrades to the various Apache processors and displays. Mission Computer / Processing modifications and/or upgrades include improvements to the master data processing unit(s) responsible for coordinating and directing the major avionics mission systems. Displays and Controls modifications and/or upgrades includes improvements to the equipment which presents processed data by specially designed electronic devices through interconnection with computer or component equipment and the associated equipment needed to control the presentation of the necessary flight and tactical information to the crew for efficient management of the aircraft during all segments of the mission profile under day and night during all weather conditions. This equipment includes multifunction displays, control display units, display processors and on-board mission planning systems. Software Upgrades include critical software enhancements that will enable Apache commanders and aircrews to better perform their combat mission.

Sensors include modifications, operational improvements, and/or mitigation of obsolescence issues to the Apache Sensor suite, which includes the MTADS/PNVS, the Modernized Day Sensor Assembly (MDSA), and the Modernized Radar Frequency Interferometer (MRFI) Processor and Receiver. MTADS/PNVS operational and logistics improvements include accelerated application of outstanding Engineering Change Proposals and the sensors overhaul through the Arizona Support Center facility to allow for proper configuration. MDSA Phase I is the Modernized Laser Rangefinder/Designator (M-LFRD) which provides enhanced laser ranging, improved target designation, and target tracking capability by holding a stabilized laser beam on a distant stationary or moving point target for highly precise handoff to precision guided weapons. M-LFRD replaces the obsolete Laser Transceiver Unit, which mitigates ongoing obsolescence risks, improves reliability and maintainability, and reduces operations and support costs. MDSA Phase II replaces the remaining legacy DSA components, adding a laser pointer and high definition color-camera capability. Phase II funding enables software integration, tooling, and test equipment procurement and system production.

Support Elements include the modification and production of those items, which are not part of the aircraft system but are required to maintain, service, or calibrate the aircraft systems or portions of the aircraft system while not directly engaged in the performance of its mission and will not be in the inventory for support of other weapon systems. Post Production Organic support establishes Depot Pilot Programs at Corpus Christi Army Depot (CCAD) and Tobyhanna Army Depot (TYAD) for selected Depot Level Repairables (DLR) as part of the Original Equipment Manufacturer (OEM) to Depot Transition. Post Production Organic Support (PPOS) provides Depot Maintenance Plant Equipment, Special Tools and Test Equipment, labor training and associated technical data for future repairs once the DLR has transitioned to the depot. PPOS improves Repair Turn Around Time and retain depot maintenance capabilities.

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Exhibit P-3a, Individual Modification: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications
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Training Systems include deliverable training services, devices, accessories, aids, equipment, and parts used to facilitate instruction through which personnel will learn to operate and maintain the system with maximum efficiency. Examples include Operator / Maintainer Training (aircraft/classroom), obsolescence and training concurrency to training device systems, and updates to allow individual/team training tasks and collective training. Efforts include the production and upgrade of deliverable training equipment and associated software.

Modification to the MUMT system enable fully integrated Unmanned Aerial System Level of Interoperability 4 in the C, L, S, and Ku band using both Tactical Common Data Link and Bandwidth Efficient Tactical Common Data Link; processor updates ensure Information Assurance certification and Interoperability Protocol compatibility. MUMT funding will be used for both non-recurring and recurring engineering.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	48.487	181.869	116.153	-	116.153	133.846	177.919	145.955	134.063
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	48.487	181.869	116.153	-	116.153	133.846	177.919	145.955	134.063

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: AA6605 / AH-64 MODS					Modification Number / Title: AA6606 / AH-64 Modifications			
Models of Systems Affected: Longbow Apache				Modification Type: Operational & Reliability Improvements and Resolve Obsolescence Issues				Related RDT&E PEs:					
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)				
Procurement													
Modification Item 1 of 18: Apache Sensors Life Extension & Upgrade													
A Kits													
Recurring													
Kit Quantity	669 / 123.697	8 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	677 / 123.697	
Equipment (GFE)	0 / 44.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 44.900	
Visible Near Infrared (V/NIR)	0 / 28.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.600	
Other	0 / 7.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.200	
Subtotal: Recurring	- / 204.397	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 204.397	
Subtotal: Apache Sensors Life Extension & Upgrade	669 / 204.397	8 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	677 / 204.397	
Modification Item 2 of 18: AH-64A MISC Mods \$5M or less (no P3a set)													
A Kits													
Recurring													
Interim Contractor Support	0 / 751.590	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 751.590	
Subtotal: Recurring	- / 751.590	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 751.590	
Subtotal: AH-64A MISC Mods \$5M or less (no P3a set)	0 / 751.590	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 751.590	
Modification Item 3 of 18: Apache Transformation (no P3a set)													
A Kits													
Recurring													
Sets, Kits & Outfits (SKO)	0 / 23.990	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.990	
Equipment, NGF	0 / 29.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.100	
ASL/PLL	0 / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.000	
Subtotal: Recurring	- / 55.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 55.090	
Subtotal: Apache Transformation (no P3a set)	0 / 55.090	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 55.090	
Modification Item 4 of 18: Modernized TADS/PNVS (M-TADS)													
A Kits													
Recurring													
Equipment	542 / 861.630	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	542 / 861.630	
Equipment (OCO)	23 / 49.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 49.070	

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA6605 / AH-64 MODS						Modification Number / Title: AA6606 / AH-64 Modifications			
Models of Systems Affected: Longbow Apache				Modification Type: Operational & Reliability Improvements and Resolve Obsolescence Issues				Related RDT&E PEs:					
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
TEDAC/HDSS	0 / 67.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 67.200	
Other Support	0 / 42.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.200	
<i>Subtotal: Recurring</i>	- / 1,020.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1,020.100	
<i>Subtotal: Modernized TADS/PNVS (M-TADS)</i>	565 / 1,020.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	565 / 1,020.100	
Modification Item 5 of 18: Video from UAS Interoperability Teaming (VUIT-2)													
A Kits													
Recurring													
VUIT-2 -- FY10 OCO	48 / 91.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	48 / 91.900	
VUIT-2 -- FY11 OCO	144 / 170.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	144 / 170.600	
<i>Subtotal: Recurring</i>	- / 262.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 262.500	
<i>Subtotal: Video from UAS Interoperability Teaming (VUIT-2)</i>	192 / 262.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	192 / 262.500	
Modification Item 6 of 18: Apache Product Improvements													
A Kits													
Recurring													
CBM Hardware/VMEP	428 / 17.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	428 / 17.600	
Other Recap	0 / 48.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 48.100	
NG Recap Support	0 / 79.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 79.300	
CBM Services	0 / 49.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 49.600	
Composite Main Rotor Blade ship sets	10 / 17.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 17.100	
Other	0 / 563.268	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 563.268	
<i>Subtotal: Recurring</i>	- / 774.968	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 774.968	
<i>Subtotal: Apache Product Improvements</i>	438 / 774.968	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	438 / 774.968	
Modification Item 7 of 18: Lightweight Missile Launcher (LWML)													
A Kits													
Recurring													
LWML Procurement	522 / 34.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	522 / 34.064	
<i>Subtotal: Recurring</i>	- / 34.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.064	
<i>Subtotal: Lightweight Missile Launcher (LWML)</i>	522 / 34.064	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	522 / 34.064	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: AA6605 / AH-64 MODS					Modification Number / Title: AA6606 / AH-64 Modifications			
Models of Systems Affected: Longbow Apache				Modification Type: Operational & Reliability Improvements and Resolve Obsolescence Issues				Related RDT&E PEs:					
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)				
Modification Item 8 of 18: Apache Upgrades and Remanufacture													
A Kits													
Recurring													
Blk II Reman Aircraft	117 / 1,293.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	117 / 1,293.300	
NG Aircraft Procurement	72 / 865.851	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 865.851	
NG Aircraft Procurement (OCO)	23 / 284.530	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 284.530	
System / Software Upgrade	0 / 23.323	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.323	
Obsolescence	0 / 18.257	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.257	
NG MEP	0 / 122.680	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 122.680	
Other Support	0 / 170.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 170.300	
Subtotal: Recurring	- / 2,778.241	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2,778.241	
Subtotal: Apache Upgrades and Remanufacture	212 / 2,778.241	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	212 / 2,778.241	
Modification Item 9 of 18: Modernized Day Side Assembly (M-DSA), Phase 1													
A Kits													
Recurring													
Equipment	299 / 106.263	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	299 / 106.263	
Subtotal: Recurring	- / 106.263	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 106.263	
Subtotal: Modernized Day Side Assembly (M-DSA), Phase 1	299 / 106.263	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	299 / 106.263	
Modification Item 10 of 18: Fire Control Radar (FCR)													
A Kits													
Recurring													
Installation Kits	30 / 134.240	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 134.240	
Installation Kits (OCO)	9 / 44.880	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 44.880	
Subtotal: Recurring	- / 179.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 179.120	
Subtotal: Fire Control Radar (FCR)	39 / 179.120	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 179.120	
Modification Item 11 of 18: Apache Block III													
A Kits													
Recurring													
Long Lead Items	0 / 11.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.100	

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Exhibit P-3a, Individual Modification: PB 2016 Army											Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA6605 / AH-64 MODS				Modification Number / Title: AA6606 / AH-64 Modifications				
Models of Systems Affected: Longbow Apache				Modification Type: Operational & Reliability Improvements and Resolve Obsolescence Issues				Related RDT&E PEs:				
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)			
A to Block III (NRE)	0 / 29.370	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.370
<i>Subtotal: Recurring</i>	- / 40.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 40.470
<i>Subtotal: Apache Block III</i>	0 / 40.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 40.470
Modification Item 12 of 18: Apache Training Aids, Devices, Simulators & Simul												
A Kits												
Recurring												
LCT (NG/USAACE/WAATS)	5 / 84.860	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 84.860
System TADSS	50 / 24.404	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 24.404
<i>Subtotal: Recurring</i>	- / 109.264	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 109.264
<i>Subtotal: Apache Training Aids, Devices, Simulators & Simul</i>	55 / 109.264	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 109.264
Modification Item 13 of 18: Airframe												
A Kits												
Recurring												
Structural Subsystems	0 / 12.535	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 12.535
Health Monitoring System	- / -	- / 3.011	- / 15.320	- / 15.421	- / -	- / 15.421	- / 15.524	- / 15.629	- / 15.736	- / 15.845	- / 15.956	- / 42.442
RESET / MEP Kits	0 / 25.482	- / 121.669	- / 17.367	- / 15.934	- / -	- / 15.934	- / 12.420	- / 12.620	- / 12.620	- / 12.284	- / 12.400	- / 105.796
Other Support	- / -	- / 11.052	- / 10.386	- / 10.273	- / -	- / 10.273	- / 10.297	- / 10.265	- / 10.274	- / 10.290	- / 10.398	- / 3.235
<i>Subtotal: Recurring</i>	- / 38.017	- / 25.732	- / 13.073	- / 11.628	- / -	- / 11.628	- / 18.241	- / 18.514	- / 18.630	- / 11.419	- / 8.754	- / 164.008
<i>Subtotal: Airframe</i>	0 / 38.017	- / 25.732	- / 13.073	- / 11.628	- / -	- / 11.628	- / 18.241	- / 18.514	- / 18.630	- / 11.419	- / 8.754	- / 164.008
Modification Item 14 of 18: Mission Command												
A Kits												
Recurring												
Processors	0 / 3.435	- / 6.324	- / 22.420	- / 17.800	- / -	- / 17.800	- / 25.900	- / 23.000	- / 17.890	- / 15.000	- / 3.699	- / 125.468
Displays	0 / 1.700	- / 17.186	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.886
Other Support	- / -	- / 10.576	- / 12.155	- / 10.691	- / -	- / 10.691	- / 2.060	- / 1.678	- / 1.459	- / 1.008	- / 10.407	- / 10.034
<i>Subtotal: Recurring</i>	- / 5.135	- / 14.086	- / 24.575	- / 8.491	- / -	- / 8.491	- / 27.960	- / 24.678	- / 19.349	- / 16.008	- / 4.106	- / 144.388
<i>Subtotal: Mission Command</i>	0 / 5.135	- / 14.086	- / 24.575	- / 8.491	- / -	- / 8.491	- / 27.960	- / 24.678	- / 19.349	- / 16.008	- / 4.106	- / 144.388
Modification Item 15 of 18: Sensors												
A Kits												
Recurring												
MTADS/PNVS	0 / 11.468	- / -	- / 13.500	- / 15.000	- / -	- / 15.000	- / 3.000	- / -	- / -	- / -	- / -	- / 22.968

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: AA6605 / AH-64 MODS					Modification Number / Title: AA6606 / AH-64 Modifications			
Models of Systems Affected: Longbow Apache				Modification Type: Operational & Reliability Improvements and Resolve Obsolescence Issues				Related RDT&E PEs:					
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)				
M-RFI	0 / 6.270	- / 8.314	18 / 24.431	9 / 10.593	- / -	9 / 10.593	22 / 9.156	22 / 15.546	18 / 13.991	18 / 13.307	- / 14.909	107 / 106.517	
Other Support	- / -	- / 0.355	- / 15.721	- / 14.333	- / -	- / 14.333	- / 14.184	- / 5.485	- / 4.578	- / 14.718	- / 16.032	- / 35.406	
Subtotal: Recurring	- / 17.738	- / 8.669	- / 33.652	- / 19.926	- / -	- / 19.926	- / 16.340	- / 21.031	- / 18.569	- / 18.025	- / 10.941	- / 164.891	
B Kits													
Recurring													
MDSA Phase I	150 / 49.834	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	150 / 49.834	
MDSA Phase II	- / -	- / -	15 / 51.156	40 / 70.510	- / -	40 / 70.510	46 / 65.673	71 / 100.795	64 / 81.723	65 / 81.810	- / 85.432	301 / 537.099	
Subtotal: Recurring	- / 49.834	- / -	- / 51.156	- / 70.510	- / -	- / 70.510	- / 65.673	- / 100.795	- / 81.723	- / 81.810	- / 85.432	- / 586.933	
Subtotal: Sensors	150 / 67.572	- / 8.669	33 / 84.808	49 / 90.436	- / -	49 / 90.436	68 / 82.013	93 / 121.826	82 / 100.292	83 / 99.835	- / 96.373	558 / 751.824	
Modification Item 16 of 18: Support Elements													
A Kits													
Recurring													
Post Production Organic Support	0 / 0.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.020	
Subtotal: Recurring	- / 0.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.020	
Subtotal: Support Elements	0 / 0.020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.020	
Modification Item 17 of 18: Training Systems													
A Kits													
Recurring													
Operator Devices	0 / 14.980	- / -	- / 16.475	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.455	
Maintainer Devices	0 / 3.706	- / -	- / 16.930	- / 0.550	- / -	- / 0.550	- / 0.550	- / 0.550	- / 0.550	- / 0.550	- / 0.550	- / 13.936	
Other Support	- / -	- / -	- / 0.970	- / 15.048	- / -	- / 15.048	- / 15.082	- / 12.351	- / 17.134	- / 16.251	- / 15.237	- / 142.073	
Subtotal: Recurring	- / 18.686	- / -	- / 14.375	- / 15.598	- / -	- / 15.598	- / 15.632	- / 12.901	- / 17.684	- / 16.801	- / 15.787	- / 177.464	
Subtotal: Training Systems	0 / 18.686	- / -	- / 14.375	- / 15.598	- / -	- / 15.598	- / 15.632	- / 12.901	- / 17.684	- / 16.801	- / 15.787	- / 177.464	
Modification Item 18 of 18: Manned / Unmanned Teaming (MUM-T)													
A Kits													
Recurring													
Other	- / -	- / -	- / 13.038	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.038	
Subtotal: Recurring	- / -	- / -	- / 13.038	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.038	
Non-Recurring													
Aviation Restructure (MUMT-X)	- / -	- / -	9 / 42.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 42.000	
Subtotal: Non-Recurring	- / -	- / -	- / 42.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.000	

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA6605 / AH-64 MODS						Modification Number / Title: AA6606 / AH-64 Modifications			
Models of Systems Affected: Longbow Apache				Modification Type: Operational & Reliability Improvements and Resolve Obsolescence Issues				Related RDT&E PEs:					
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
<i>Subtotal: Manned / Unmanned Teaming (MUM-T)</i>	- / -	- / -	9 / 45.038	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 45.038	
<i>Subtotal: Procurement, All Modification Items</i>	3,141 / 6,445.497	8 / 48.487	42 / 181.869	49 / 116.153	- / -	49 / 116.153	68 / 133.846	93 / 177.919	82 / 145.955	83 / 134.063	- / 115.020	3,566 / 7,498.809	
Installation													
Modification Item 1 of 18: Apache Sensors Life Extension & Upgrade	750 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	750 / -	
Modification Item 2 of 18: AH-64A MISC Mods \$5M or less (no P3a set)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 3 of 18: Apache Transformation (no P3a set)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 4 of 18: Modernized TADS/PNVS (M-TADS)	565 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	565 / -	
Modification Item 5 of 18: Video from UAS Interoperability Teaming (VUIT-2)	216 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	216 / -	
Modification Item 6 of 18: Apache Product Improvements	1,032 / 23.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,032 / 23.500	
Modification Item 7 of 18: Lightweight Missile Launcher (LWML)	522 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	522 / -	
Modification Item 8 of 18: Apache Upgrades and Remanufacture	259 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	259 / -	
Modification Item 9 of 18: Modernized Day Side Assembly (M-DSA), Phase1	0 / 0.000	62 / -	225 / -	12 / -	- / -	12 / -	- / -	- / -	- / -	- / -	- / -	299 / -	
Modification Item 10 of 18: Fire Control Radar (FCR)	27 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / -	
Modification Item 11 of 18: Apache Block III	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 12 of 18: Apache Training Aids, Devices, Simulators & Simul	26 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / -	
Modification Item 13 of 18: Airframe	0 / 0.000	- / -	72 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / -	
Modification Item 14 of 18: Mission Command	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 15 of 18: Sensors	150 / 0.000	- / -	33 / -	49 / -	- / -	49 / -	66 / -	93 / -	82 / -	83 / -	- / -	556 / -	
Modification Item 16 of 18: Support Elements	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 17 of 18: Training Systems	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 18 of 18: Manned / Unmanned Teaming (MUM-T)	0 / 0.000	- / -	9 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / -	
<i>Subtotal: Installation</i>	3,547 / 23.500	62 / -	339 / -	61 / -	- / -	61 / -	66 / -	93 / -	82 / -	83 / -	- / -	4,333 / 23.500	
Total													

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications
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Models of Systems Affected: Longbow Apache	Modification Type: Operational & Reliability Improvements and Resolve Obsolescence Issues	Related RDT&E PEs:
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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
	<i>Qty (Each) / Total Cost (\$ M)</i>											
Total Cost (Procurement + Support + Installation)	8,116.850	48.487	181.869	116.153	-	116.153	133.846	177.919	145.955	134.063	115.020	9,170.162

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 1 of 18: Apache Sensors Life Extension & Upgrade

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: Modification

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)											
Prior Years	750 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	750 / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	750 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	750 / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	714
Out	714	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	714

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 3 of 18: Apache Transformation (no P3a set)

Manufacturer Information

Manufacturer Name: NA	Manufacturer Location: NA
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: NA

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 4 of 18: Modernized TADS/PNVS (M-TADS)

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Orlando, FL
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: Modification

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)											
Prior Years	565 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	565 / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	565 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	565 / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	557	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	565
Out	557	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	565	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 5 of 18: Video from UAS Interoperability Teaming (VUIT-2)

Manufacturer Information

Manufacturer Name: Science and Engineering Services, Inc	Manufacturer Location: Huntsville, AL
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: .

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)											
Prior Years	216 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	216 / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	216 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	216 / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240
Out	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 7 of 18: Lightweight Missile Launcher (LWML)

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Orlando, FL
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: Modification

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)											
Prior Years	522 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	522 / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	522 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	522 / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot			
		Q1	Q2	Q3	Q4																													
In	522	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	522
Out	522	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	522

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 8 of 18: Apache Upgrades and Remanufacture

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Mesa, AZ
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: Remanufacture

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)											
Prior Years	259 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	259 / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	259 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	259 / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	212	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	212
Out	212	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	212

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 9 of 18: Modernized Day Side Assembly (M-DSA), Phase1

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Orlando, FL
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: Modification

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)											
Prior Years	0 / 0.000	62 / 0.000	225 / 0.000	12 / 0.000	- / -	12 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	299 / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	62 / -	225 / -	12 / -	- / -	12 / -	- / -	- / -	- / -	- / -	- / -	299 / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	17	26	45	52	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158
Out	17	26	45	52	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 10 of 18: Fire Control Radar (FCR)

Manufacturer Information

Manufacturer Name: Longbow Limited	Manufacturer Location: Orlando, FL and Baltimore, MD
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: Modification

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)											
Prior Years	27 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	27 / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	27 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	27	-	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36
Out	27	-	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 11 of 18: Apache Block III

Manufacturer Information

Manufacturer Name: .	Manufacturer Location: .
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: .

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 12 of 18: Apache Training Aids, Devices, Simulators & Simul

Manufacturer Information

Manufacturer Name: .	Manufacturer Location: .
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: .

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)											
Prior Years	26 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	26 / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	26 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 13 of 18: Airframe

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months):	Production Leadtime (in Months):

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		May 2015	May 2016	May 2017	May 2018	May 2019	May 2020
Delivery Dates		Feb 2016	Feb 2017	Feb 2018	Feb 2019	Feb 2020	Feb 2021

Installation Information

Method of Implementation: Modifications

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)											
Prior Years	0 / 0.000	- / 0.000	72 / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	72 / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	72 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 14 of 18: Mission Command

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: .

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 15 of 18: Sensors

Manufacturer Information

Manufacturer Name: Lockheed Martin	Manufacturer Location: Orlando, FL
Administrative Leadtime (in Months):	Production Leadtime (in Months): 24

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Mar 2014	Jul 2015	Mar 2016	Jan 2017	Mar 2018	Mar 2019	Mar 2020
Delivery Dates	Mar 2016	Jul 2017	Mar 2018	Jan 2019	Mar 2020	Mar 2021	Mar 2022

Installation Information

Method of Implementation: Modifications

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)											
Prior Years	150 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	150 / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	33 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	33 / -
FY 2018	0 / 0.000	- / -	- / -	49 / -	- / -	49 / -	- / -	- / -	- / -	- / -	- / -	49 / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	66 / -	- / -	- / -	- / -	- / -	66 / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	93 / -	- / -	- / -	- / -	93 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	82 / -	83 / -	- / -	165 / -
Total	150 / 0.000	- / -	33 / -	49 / -	- / -	49 / -	66 / -	93 / -	82 / -	83 / -	- / -	556 / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	150	-	-	-	-	-	-	-	-	-	1	9	18	18	21	20	15	-	-	-	-	-	-	-	-	-	-	-	-	438	690
Out	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	9	18	18	21	20	15	-	-	-	-	438	690

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 16 of 18: Support Elements

Manufacturer Information

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

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

Installation Information

Method of Implementation: .

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 17 of 18: Training Systems

Manufacturer Information

Manufacturer Name: Boeing / LSI Inc	Manufacturer Location: St. Louis, MO / Jacksonville, FL
Administrative Leadtime (in Months): 3	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: Field Retrofits

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA6605 / AH-64 MODS	Modification Number / Title: AA6606 / AH-64 Modifications

Modification Item 18 of 18: Manned / Unmanned Teaming (MUM-T)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
Administrative Leadtime (in Months):	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: FY15 quantity of nine (9) will be unit-installed

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	9 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	9 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)
--	--

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements: 0607137A				
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,925.679	91.064	32.092	86.330	-	86.330	103.672	144.866	90.339	90.582	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	2,925.679	91.064	32.092	86.330	-	86.330	103.672	144.866	90.339	90.582	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,925.679	91.064	32.092	86.330	-	86.330	103.672	144.866	90.339	90.582	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The CH-47 Chinook is a twin-turbine, tandem-rotor, heavy lift transport helicopter with a useful load of up to 25,000 pounds. As the Army's only heavy lift helicopter, the mission of the CH-47 is to transport troops (including air assault), supplies, weapons and other cargo in general support operations. The CH-47 is vital to the Overseas Contingency Operations and Homeland Security needs of our nation. Secondary missions include medical evacuation, aircraft recovery, parachute drops, disaster relief and search and rescue. These aircraft are fielded to heavy helicopter companies and Special Operations Aviation. The major modifications include the Cargo On/Off Loading System, Ballistic Protection System, Rotor Blades, Airframe Optimization and Payload Buyback, Crashworthy Seats, Cargo Platform Health Environment, Adjustable Pitch Change Link, Engine Improvement, Transformation Sets, Kits and Outfits and Aircraft Component Parts-Marking.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	91.064	32.092	86.330	-	86.330	103.672	144.866	90.339	90.582
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	91.064	32.092	86.330	-	86.330	103.672	144.866	90.339	90.582

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements: 0607137A		
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)					
AA0252 / CH-47 Cargo Helicopter Mods (Unclassified)	P-3a		- / 2,925.679	- / 91.064	- / 32.092	- / 86.330	- / -	- / 86.330
Total Gross/Weapon System Cost			- / 2,925.679	- / 91.064	- / 32.092	- / 86.330	- / -	- / 86.330
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
AA0252 / CH-47 Cargo Helicopter Mods (Unclassified)	P-3a		- / 103.672	- / 144.866	- / 90.339	- / 90.582	Continuing	Continuing
Total Gross/Weapon System Cost			- / 103.672	- / 144.866	- / 90.339	- / 90.582	Continuing	Continuing

*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:
 In accordance with Section 1815 of the 2009 National Defense Authorization Act (P.L 110-181), this item is necessary for use by the Active and Reserve Components of Armed Forces for homeland and defense missions, domestic emergency responses and providing military support to civil authorities.

The FY 16 Base procurement dollars in the amount of \$86.330 million support the major modifications that include the Cargo On/Off Loading System, Ballistic Protection Systems, Rotor Blades, Airframe Optimization and Payload Buyback, Crashworthy Seats, Cargo Platform Health Environment, Adjustable Pitch Change Link, Engine Improvement, Transformation Sets, Kits and Outfits and Aircraft Component Parts-Marking.

The FY16 funding request was reduced by \$.860 million to account for the availability of prior year execution balances.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)				Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods				

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>)	2,925.679	91.064	32.092	86.330	-	86.330	103.672	144.866	90.339	90.582	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	2,925.679	91.064	32.092	86.330	-	86.330	103.672	144.866	90.339	90.582	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	2,925.679	91.064	32.092	86.330	-	86.330	103.672	144.866	90.339	90.582	Continuing	Continuing

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The major modifications include Cargo On/Off Loading System, Ballistic Protections Systems, Rotor Blades, Airframe Optimization and Payload Buyback, Crashworthy Seats, Cargo Platform Health Environment, Adjustable Pitch Change Link, Engine Improvement, Transformation Sets, Kits and Outfits, Aircraft Component Parts-Marking.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	91.064	32.092	86.330	-	86.330	103.672	144.866	90.339	90.582
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	91.064	32.092	86.330	-	86.330	103.672	144.866	90.339	90.582

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)						Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods			
Models of Systems Affected: CH-47				Modification Type: Unclassified						Related RDT&E PEs:			
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)				
Procurement													
Modification Item 1 of 13: Cargo On/Off Loading System (COOLS) and COOLS BPS													
A Kits													
Recurring													
Cargo Handling Floor System	204 / 43.191	50 / 10.373	4 / 0.847	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Ballistic Protection System (BPS)	96 / 22.358	50 / 11.410	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
PM Support	0 / 3.277	- / 1.089	- / 0.042	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Cargo Handling Floor System (OCO)	26 / 29.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
PM Support (OCO)	0 / 8.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.010	
Subtotal: Recurring	- / 106.136	- / 22.872	- / 0.889	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Subtotal: Cargo On/Off Loading System (COOLS) and COOLS BPS	326 / 106.136	100 / 22.872	4 / 0.889	- / -	- / -	- / -	- / -	- / -	- / -	- / -	Continuing	Continuing	
Modification Item 2 of 13: Advanced Chinook Rotor Blade (ACRB)													
A Kits													
Recurring													
Rotor Blades	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 16.597	137 / 50.363	139 / 52.236	Continuing	Continuing	
PM Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.830	- / 2.518	- / 2.612	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.427	- / 52.881	- / 54.848	Continuing	Continuing	
Subtotal: Advanced Chinook Rotor Blade (ACRB)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 17.427	137 / 52.881	139 / 54.848	Continuing	Continuing	
Modification Item 3 of 13: Systems Optimization and Payload Buyback													
A Kits													
Recurring													
PM Support	- / -	- / 1.703	- / 0.559	- / 2.680	- / -	- / 2.680	- / 3.041	- / 2.911	- / -	- / -	- / -	- / 10.894	
Subtotal: Recurring	- / -	- / 1.703	- / 0.559	- / 2.680	- / -	- / 2.680	- / 3.041	- / 2.911	- / -	- / -	- / -	- / 10.894	
Non-Recurring													
NRE	- / -	- / 34.063	- / 11.184	- / 53.539	- / -	- / 53.539	- / 60.813	- / 58.221	- / -	- / -	- / -	- / 217.820	
Subtotal: Non-Recurring	- / -	- / 34.063	- / 11.184	- / 53.539	- / -	- / 53.539	- / 60.813	- / 58.221	- / -	- / -	- / -	- / 217.820	
Subtotal: Systems Optimization and Payload Buyback	- / -	- / 35.766	- / 11.743	- / 56.219	- / -	- / 56.219	- / 63.854	- / 61.132	- / -	- / -	- / -	- / 228.714	
Modification Item 4 of 13: Crash Resistant Troop Seats (CRTS)													
A Kits													

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army									Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)					Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods				
Models of Systems Affected: CH-47				Modification Type: Unclassified				Related RDT&E PEs:					
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)				
Recurring													
Installation Kits	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 0.370	60 / 0.206	60 / 0.210	Continuing	Continuing	
PM Support	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.389	- / 0.216	- / 0.221	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.759	- / 0.422	- / 0.431	Continuing	Continuing	
B Kits													
Recurring													
Seats SS (31 seats per SS)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 7.405	60 / 4.120	60 / 4.202	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.405	- / 4.120	- / 4.202	Continuing	Continuing	
Subtotal: Crash Resistant Troop Seats (CRTS)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	220 / 8.164	120 / 4.542	120 / 4.633	Continuing	Continuing	
Modification Item 5 of 13: Cargo Platform Health Environment (CPHE)													
A Kits													
Recurring													
Kits Type 1	13 / 6.950	- / -	8 / 4.272	3 / 1.634	- / -	3 / 1.634	3 / 1.667	17 / 9.632	- / -	- / -	- / -	44 / 24.155	
Kits Type 2	14 / 2.282	- / -	1 / 0.172	- / -	- / -	- / -	- / -	1 / 0.183	- / -	- / -	- / -	16 / 2.637	
CPHE Software Upgrade	0 / 0.159	- / 0.156	- / 0.159	- / 0.162	- / -	- / 0.162	- / 0.165	- / 0.168	- / 0.172	- / -	- / -	- / 1.141	
Services	0 / 1.446	- / -	- / 2.325	- / 1.874	- / -	- / 1.874	- / 1.874	- / 1.683	- / 1.717	- / -	- / -	- / 10.919	
PM Support	0 / 0.269	- / 0.345	- / 0.133	- / 0.183	- / -	- / 0.183	- / 0.185	- / 0.574	- / 0.094	- / -	- / -	- / 1.783	
Subtotal: Recurring	- / 11.106	- / 0.501	- / 7.061	- / 3.853	- / -	- / 3.853	- / 3.891	- / 12.240	- / 1.983	- / -	- / -	- / 40.635	
Non-Recurring													
NRE	- / -	- / 6.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.750	
Subtotal: Non-Recurring	- / -	- / 6.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.750	
Subtotal: Cargo Platform Health Environment (CPHE)	27 / 11.106	- / 7.251	9 / 7.061	3 / 3.853	- / -	3 / 3.853	3 / 3.891	18 / 12.240	- / 1.983	- / -	- / -	60 / 47.385	
Modification Item 6 of 13: Adjustable Pitch Change Link													
A Kits													
Recurring													
Pitch Change Links	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 2.376	30 / 2.424	30 / 2.472	30 / 2.521	Continuing	Continuing
PM Support	- / -	- / 0.042	- / -	- / -	- / -	- / -	- / -	- / 0.119	- / 0.135	- / 0.125	- / 0.126	Continuing	Continuing
Subtotal: Recurring	- / -	- / 0.042	- / -	- / -	- / -	- / -	- / -	- / 2.495	- / 2.559	- / 2.597	- / 2.647	Continuing	Continuing
Non-Recurring													
NRE	0 / 4.900	- / 0.833	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.733	
Subtotal: Non-Recurring	- / 4.900	- / 0.833	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.733	
Subtotal: Adjustable Pitch Change Link	0 / 4.900	- / 0.875	- / -	- / -	- / -	- / -	30 / 2.495	30 / 2.559	30 / 2.597	30 / 2.647	Continuing	Continuing	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)						Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods			
Models of Systems Affected: CH-47				Modification Type: Unclassified						Related RDT&E PEs:			
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)				
Modification Item 7 of 13: Engine Improvement													
A Kits													
Recurring													
T55 Engine Control Unit Prog (ECU)	667 / 45.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	667 / 45.000	
New Engines	1,250 / 2,495.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,250 / 2,495.000	
P3 Check Valve	373 / 4.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	373 / 4.900	
Next Generation Torque System	404 / 14.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	404 / 14.500	
Logistics	0 / 39.953	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	0 / 39.953	
ECU Upgrade	0 / 0.700	- / 1.860	- / 0.836	- / 1.300	- / -	- / 1.300	- / 1.064	- / 0.574	- / -	- / -	- / -	- / 16.334	
RIMFIRE	0 / 0.450	- / 0.415	- / 0.423	- / 0.431	- / -	- / 0.431	- / 0.440	- / 0.466	- / 0.476	- / 0.467	Continuing	Continuing	
Chinook Cabin Information Panel	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.700	- / 0.500	Continuing	Continuing	
PM Admin Support	0 / 4.223	- / 0.134	- / 0.076	- / 0.105	- / -	- / 0.105	- / 0.075	- / 0.052	- / 0.311	- / 0.048	Continuing	Continuing	
Subtotal: Recurring	- / 2,604.726	- / 2.409	- / 1.335	- / 1.836	- / -	- / 1.836	- / 1.579	- / 1.092	- / 6.487	- / 1.015	Continuing	Continuing	
Non-Recurring													
ECP NRE/Incorporation	- / -	- / 0.415	- / 0.275	- / 0.370	- / -	- / 0.370	- / -	- / -	- / -	- / -	- / -	- / 1.060	
Subtotal: Non-Recurring	- / -	- / 0.415	- / 0.275	- / 0.370	- / -	- / 0.370	- / -	- / -	- / -	- / -	- / -	- / 1.060	
Subtotal: Engine Improvement	2,694 / 2,604.726	- / 2.824	- / 1.610	- / 2.206	- / -	- / 2.206	- / 1.579	- / 1.092	- / 6.487	- / 1.015	Continuing	Continuing	
Modification Item 8 of 13: Aircraft Component Parts-Marking (UID)													
A Kits													
Non-Recurring													
Component Markings	0 / 22.300	- / 1.400	- / 4.900	- / 1.556	- / -	- / 1.556	- / 1.586	- / 1.618	- / 1.650	- / 1.683	Continuing	Continuing	
Subtotal: Non-Recurring	- / 22.300	- / 1.400	- / 4.900	- / 1.556	- / -	- / 1.556	- / 1.586	- / 1.618	- / 1.650	- / 1.683	Continuing	Continuing	
Subtotal: Aircraft Component Parts-Marking (UID)	0 / 22.300	- / 1.400	- / 4.900	- / 1.556	- / -	- / 1.556	- / 1.586	- / 1.618	- / 1.650	- / 1.683	Continuing	Continuing	
Modification Item 9 of 13: CH-47 Safety Mods \$5M or Less													
A Kits													
Recurring													
Voltage Standing Wave Ratio (VSWR)	- / -	- / 2.239	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.239	
FACTS (FADEC & Aircraft Continuity Test)	0 / 0.515	- / 1.500	- / -	- / 2.094	- / -	- / 2.094	- / 2.321	- / 1.000	- / -	- / -	- / -	- / 17.430	
Ground Spt Test Sets (IIBTS)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.586	- / 3.272	- / 3.216	- / -	- / 11.074	
Misc Mods	0 / 12.719	- / 2.873	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.592	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)						Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods			
Models of Systems Affected: CH-47				Modification Type: Unclassified				Related RDT&E PEs:					
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)				
Swashplate Assembly	- / -	- / 0.575	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.575	
Hook Load Measuring System	0 / 10.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.000	
Night Vision Goggle Internal Lighting	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.055	- / 1.813	Continuing	Continuing	
Engine Air Particle Separator (EAPS)	0 / 10.000	- / 1.948	- / 1.278	- / 4.431	- / -	- / 4.431	- / 3.538	- / 3.032	- / -	- / -	- / -	- / 24.227	
Weapon Sys Spec Data Collection	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.122	- / 1.145	- / 1.167	Continuing	Continuing	
PM Support	0 / 10.362	- / 0.457	- / 0.064	- / 0.326	- / -	- / 0.326	- / 0.293	- / 0.487	- / 0.324	- / 0.310	Continuing	Continuing	
Frangible Fuel Fitting	0 / 10.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.000	
Subtotal: Recurring	- / 53.596	- / 9.592	- / 1.342	- / 6.851	- / -	- / 6.851	- / 6.152	- / 10.227	- / 6.796	- / 6.506	Continuing	Continuing	
Subtotal: CH-47 Safety Mods \$5M or Less	0 / 53.596	- / 9.592	- / 1.342	- / 6.851	- / -	- / 6.851	- / 6.152	- / 10.227	- / 6.796	- / 6.506	Continuing	Continuing	
Modification Item 10 of 13: Improved Vibration Control System (IVCS)													
A Kits													
Recurring													
Kits	- / -	- / -	- / -	35 / 7.549	- / -	35 / 7.549	70 / 15.400	70 / 15.708	40 / 9.156	40 / 9.339	Continuing	Continuing	
PM Support	- / -	- / -	- / -	- / 0.377	- / -	- / 0.377	- / 0.776	- / 0.787	- / 0.460	- / 0.588	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / 7.926	- / -	- / 7.926	- / 16.176	- / 16.495	- / 9.616	- / 9.927	Continuing	Continuing	
Subtotal: Improved Vibration Control System (IVCS)	- / -	- / -	- / -	35 / 7.926	- / -	35 / 7.926	70 / 16.176	70 / 16.495	40 / 9.616	40 / 9.927	Continuing	Continuing	
Modification Item 11 of 13: Training Aids Devices Simulators and Simulations													
A Kits													
Recurring													
TADSS	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.999	- / 3.030	- / 6.601	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.999	- / 3.030	- / 6.601	Continuing	Continuing	
Non-Recurring													
TADSS	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.500	- / -	- / -	Continuing	Continuing	
Subtotal: Non-Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.500	- / -	- / -	Continuing	Continuing	
Subtotal: Training Aids Devices Simulators and Simulations	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.499	- / 3.030	- / 6.601	Continuing	Continuing	
Modification Item 12 of 13: Special Tools & Test Equipment													
B Kits													
Recurring													
Tools and Test Equipment	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.266	Continuing	Continuing	
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.266	Continuing	Continuing	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)						Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods			
Models of Systems Affected: CH-47				Modification Type: Unclassified				Related RDT&E PEs:					
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
<i>Subtotal: Special Tools & Test Equipment</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.266	Continuing	Continuing	
Modification Item 13 of 13: Transformation Sets, Kits and Outfits (SKO)													
A Kits													
Recurring													
SKOs	29 / 77.900	- / 2.796	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 80.696	
<i>Subtotal: Recurring</i>	- / 77.900	- / 2.796	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 80.696	
<i>Subtotal: Transformation Sets, Kits and Outfits (SKO)</i>	29 / 77.900	- / 2.796	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	29 / 80.696	
<i>Subtotal: Procurement, All Modification Items</i>	3,076 / 2,880.664	100 / 83.376	13 / 27.545	38 / 78.611	- / -	38 / 78.611	103 / 95.733	384 / 136.453	327 / 89.582	329 / 90.126	Continuing	Continuing	
Installation													
Modification Item 1 of 13: Cargo On/Off Loading System (COOLS) and COOLS BPS	46 / 3.409	68 / 4.938	50 / 3.701	50 / 3.774	- / -	50 / 3.774	50 / 3.850	44 / 3.456	- / -	- / -	- / -	308 / 23.128	
Modification Item 4 of 13: Crash Resistant Troop Seats (CRTS)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 0.680	60 / 0.378	338 / 2.173	508 / 3.231	
Modification Item 5 of 13: Cargo Platform Health Environment (CPHE)	2 / 0.106	57 / 2.750	16 / 0.846	72 / 3.882	- / -	72 / 3.882	72 / 3.960	86 / 4.825	- / -	- / -	- / -	305 / 16.369	
Modification Item 9 of 13: CH-47 Safety Mods \$5M or Less	35 / 3.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 3.300	
Modification Item 10 of 13: Improved Vibration Control System (IVCS)	0 / 0.000	- / -	- / -	35 / 0.063	- / -	35 / 0.063	70 / 0.129	70 / 0.132	40 / 0.077	40 / 0.078	295 / 0.607	550 / 1.086	
<i>Subtotal: Installation</i>	83 / 6.815	125 / 7.688	66 / 4.547	157 / 7.719	- / -	157 / 7.719	192 / 7.939	200 / 8.413	150 / 0.757	100 / 0.456	633 / 2.780	1,706 / 47.114	
Total													
Total Cost (Procurement + Support + Installation)	2,925.679	91.064	32.092	86.330	-	86.330	103.672	144.866	90.339	90.582	Continuing	Continuing	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)	Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods

Modification Item 1 of 13: Cargo On/Off Loading System (COOLS) and COOLS BPS

Manufacturer Information

Manufacturer Name: Boeing				Manufacturer Location: Ridley Park, PA			
Administrative Leadtime (in Months): 5				Production Leadtime (in Months): 5			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	May 2014	Dec 2014					
Delivery Dates	Oct 2014	May 2015					

Installation Information

Method of Implementation: Various

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)											
Prior Years	46 / 3.409	68 / 4.938	50 / 3.701	50 / 3.774	- / -	50 / 3.774	40 / 3.080	- / 0.000	- / 0.000	- / 0.000	- / 0.000	254 / 18.902
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	10 / 0.770	40 / 3.142	- / -	- / -	- / -	50 / 3.912
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	4 / 0.314	- / -	- / -	- / -	4 / 0.314
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	46 / 3.409	68 / 4.938	50 / 3.701	50 / 3.774	- / -	50 / 3.774	50 / 3.850	44 / 3.456	- / -	- / -	- / -	308 / 23.128

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot				
		Q1	Q2	Q3	Q4																														
In	46	17	17	17	17	12	12	13	13	12	12	13	13	12	12	13	13	11	11	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Out	46	17	17	17	17	12	12	13	13	12	12	13	13	12	12	13	13	11	11	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2016 Army					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10		P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)			Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods		
Modification Item 2 of 13: Advanced Chinook Rotor Blade (ACRB)							
Manufacturer Information							
Manufacturer Name: Boeing				Manufacturer Location: Ridley Park, PA			
Administrative Leadtime (<i>in Months</i>): 4				Production Leadtime (<i>in Months</i>): 6			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates					Mar 2018	Mar 2019	Mar 2020
Delivery Dates					Sep 2018	Sep 2019	Sep 2020
Installation Information							
Method of Implementation (Organic): User Installed					Installation Quantity: 0		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)	Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods
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Modification Item 3 of 13: Systems Optimization and Payload Buyback

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months):
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Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Various	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)	Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods

Modification Item 4 of 13: Crash Resistant Troop Seats (CRTS)

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Ridley Park, PA
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 8

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates					Dec 2017	Dec 2018	Dec 2019
Delivery Dates					Aug 2018	Aug 2019	Aug 2020

Installation Information

Method of Implementation: Various

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 0.680	- / -	- / -	110 / 0.680
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.378	- / -	60 / 0.378
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 0.386	60 / 0.386
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	278 / 1.787	278 / 1.787
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	110 / 0.680	60 / 0.378	338 / 2.173	508 / 3.231

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	27	28	28	15	15	15	15	338	508
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	27	28	28	15	15	15	15	338	508

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)	Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods

Modification Item 5 of 13: Cargo Platform Health Environment (CPHE)

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Ridley Park, PA
Administrative Leadtime (in Months): 3	Production Leadtime (in Months): 6

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	May 2014	May 2015	Nov 2015	Nov 2016	Nov 2017		
Delivery Dates	Nov 2014	Nov 2015	May 2016	May 2017	May 2018		

Installation Information

Method of Implementation: Various

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)											
Prior Years	2 / 0.106	57 / 2.750	16 / 0.846	63 / 3.397	- / -	63 / 3.397	69 / 3.795	65 / 3.647	- / 0.000	- / 0.000	- / 0.000	272 / 14.541
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	9 / 0.485	- / -	9 / 0.485	- / -	- / -	- / -	- / -	- / -	9 / 0.485
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	3 / 0.165	- / -	- / -	- / -	- / -	3 / 0.165
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	3 / 0.168	- / -	- / -	- / -	3 / 0.168
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	18 / 1.010	- / -	- / -	- / -	18 / 1.010
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	2 / 0.106	57 / 2.750	16 / 0.846	72 / 3.882	- / -	72 / 3.882	72 / 3.960	86 / 4.825	- / -	- / -	- / -	305 / 16.369

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	2	14	14	14	15	4	4	4	4	18	18	18	18	18	18	18	18	21	21	22	22	-	-	-	-	-	-	-	-	-	-	305
Out	2	14	14	14	15	4	4	4	4	18	18	18	18	18	18	18	18	21	21	22	22	-	-	-	-	-	-	-	-	-	-	305

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Exhibit P-3a, Individual Modification: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)	Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods
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Modification Item 6 of 13: Adjustable Pitch Change Link

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Ridley Park, PA
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 6
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Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates				Mar 2017	Mar 2018	Mar 2019	Mar 2020
Delivery Dates				Sep 2017	Sep 2018	Sep 2019	Sep 2020

Installation Information

Method of Implementation (Organic): User Installed	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2016 Army					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10		P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)			Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods		
Modification Item 7 of 13: Engine Improvement							
Manufacturer Information							
Manufacturer Name: Honeywell Inc				Manufacturer Location: Phoenix, AZ			
Administrative Leadtime (in Months):				Production Leadtime (in Months):			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							
Installation Information							
Method of Implementation (Organic): Various					Installation Quantity: 0		

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Exhibit P-3a, Individual Modification: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)	Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods
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Modification Item 8 of 13: Aircraft Component Parts-Marking (UID)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months):	Production Leadtime (in Months):
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Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Various	Installation Quantity: 0
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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)	Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods

Modification Item 9 of 13: CH-47 Safety Mods \$5M or Less

Manufacturer Information

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

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

Installation Information

Method of Implementation: Various

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)											
Prior Years	35 / 2.300	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	35 / 2.300
FY 2014	0 / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	35 / 3.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 3.300

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35
Out	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)	Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods

Modification Item 10 of 13: Improved Vibration Control System (IVCS)

Manufacturer Information

Manufacturer Name: Boeing	Manufacturer Location: Ridley Park PA
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			Dec 2015	Oct 2016	Oct 2017	Oct 2018	Oct 2019
Delivery Dates			Jun 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020

Installation Information

Method of Implementation: Various

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	35 / 0.063	- / -	35 / 0.063	- / -	- / -	- / -	- / -	- / -	35 / 0.063
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	70 / 0.129	- / -	- / -	- / -	- / -	70 / 0.129
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	70 / 0.132	- / -	- / -	- / -	70 / 0.132
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.077	- / -	- / -	40 / 0.077
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	40 / 0.078	- / -	40 / 0.078
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	295 / 0.607	295 / 0.607
Total	0 / 0.000	- / -	- / -	35 / 0.063	- / -	35 / 0.063	70 / 0.129	70 / 0.132	40 / 0.077	40 / 0.078	295 / 0.607	550 / 1.086

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	-	-	17	18	-	-	35	35	-	-	35	35	-	-	20	20	-	-	20	20	295	550
Out	-	-	-	-	-	-	-	-	-	-	-	17	18	-	-	35	35	-	-	35	35	-	-	20	20	-	-	20	20	295	550

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)	Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods
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Modification Item 11 of 13: Training Aids Devices Simulators and Simulations

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months): 6	Production Leadtime (in Months): 12
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Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates					Mar 2018	Mar 2019	
Delivery Dates					Mar 2019	Mar 2020	

Installation Information

Method of Implementation (Organic): Various	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)	Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods
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Modification Item 12 of 13: Special Tools & Test Equipment

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months):	Production Leadtime (in Months):
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Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): VARIOUS	Installation Quantity: 0
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UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0252 / CH-47 Cargo Helicopter Mods (MYP)	Modification Number / Title: AA0252 / CH-47 Cargo Helicopter Mods
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Modification Item 13 of 13: Transformation Sets, Kits and Outfits (SKO)

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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Administrative Leadtime (in Months):	Production Leadtime (in Months):
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Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates							
Delivery Dates							

Installation Information

Method of Implementation (Organic): Various	Installation Quantity: 0
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UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A02111 / GRCS SEMA Mods (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements: 0313400A
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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>	-	-	-	4.019	-	4.019	4.091	5.556	5.663	5.771	-	25.100
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	-	-	4.019	-	4.019	4.091	5.556	5.663	5.771	-	25.100
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	-	-	-	4.019	-	4.019	4.091	5.556	5.663	5.771	-	25.100

(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 Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	1,339.667	-	1,339.667	-	-	-	-	-	896.429

Description:

This program is not a new start . FY16 and beyond, the Guardrail modification/ funding will be identified between Project Manager Sensors - Aerial Intelligence (PM SAI) and Project Manager Fixed Wing (PM FW). The funding was transferred from AZ2000-Guardrail Common Sensors (GRCS).

The budget line supports updates and modernization for the Army Fixed Wing aircraft in support of the Guardrail Common Sensor (GRCS), Intelligence, Surveillance and Reconnaissance (ISR) mission. The updates and modernizations include Communication, Navigation, Surveillance (CNS), and Department of Defense (DoD) mandated safety equipment to current and evolving international and Army Flight Standards and Engineer, Furnish and Install (EF&I) of modifications as a complete contractual effort. The budget line provides for the procurement of replacement and spare engines for the aircraft as well as the procurement and associated testing of civil and military aircraft modification equipment. Federal Aviation Administration (FAA) supplemental type certificates (STC) that are already in existence will be leveraged for aircraft modifications. Modifications supported by this budget line ensure continued worldwide deployment capability and safe operations. The associated modifications supported within this budget line ensure worldwide deployability for those required to deploy.

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	4.019	-	4.019	4.091	5.556	5.663	5.771
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	4.019	-	4.019	4.091	5.556	5.663	5.771

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A02111 / GRCS SEMA Mods (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements: 0313400A
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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)					
A02111 / Guardrail Common Sensor SEMA Modifications (Unclassified)	P-3a		- / -	- / -	- / -	- / 4.019	- / -	- / 4.019
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / 4.019	- / -	- / 4.019

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
A02111 / Guardrail Common Sensor SEMA Modifications (Unclassified)	P-3a		- / 4.091	- / 5.556	- / 5.663	- / 5.771	- / -	- / 25.100
Total Gross/Weapon System Cost			- / 4.091	- / 5.556	- / 5.663	- / 5.771	- / -	- / 25.100

*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:
 FY16 base procurement dollars in the amount of \$4.019 million will support three (3) aircraft military/civilian modifications to include: Automatic Dependent Surveillance- Broadcast, (ADS-B) to provide digital interfacing for aircraft positioning, Universal Link- 801 data link communications management unit that provides digital communication between pilots and air traffic control (UL-801), communication radio upgrade to High Frequency/ Automatic Link Establishment (HF/ALE), beyond line of sight communication with automatic flight following and APX-119 Mode 5 to establish the ability to Identify Friend or Foe (IFF).

 FY16 APA base funding dollars in the amount of \$4.019 million can be linked to AZ2052, APA, Guardrail Payloads (MIP).

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: A02111 / GRCS SEMA Mods (MIP)				Modification Number / Title: A02111 / Guardrail Common Sensor SEMA Modifications				

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>)	-	-	-	4.019	-	4.019	4.091	5.556	5.663	5.771	-	25.100
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	-	-	-	4.019	-	4.019	4.091	5.556	5.663	5.771	-	25.100
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	4.019	-	4.019	4.091	5.556	5.663	5.771	-	25.100
<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 Thousands</i>)	-	-	-	1,339.667	-	1,339.667	-	-	-	-	-	896.429

Description:

FY16 base procurement dollars in the amount of \$4.019 million will support three (3) aircraft military/civilian modifications to include: Automatic Dependent Surveillance- Broadcast, (ADS-B) to provide digital interfacing for aircraft positioning, Universal Link- 801 data link communications management unit that provides digital communication between pilots and air traffic control (UL-801), communication radio upgrade to High Frequency/ Automatic Link Establishment (HF/ALE), beyond line of sight communication with automatic flight following and APX-119 Mode 5 to establish the ability to Identify Friend or Foe (IFF)

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.019	-	4.019	4.091	5.556	5.663	5.771
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.019	-	4.019	4.091	5.556	5.663	5.771

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: A02111 / GRCS SEMA Mods (MIP)						Modification Number / Title: A02111 / Guardrail Common Sensor SEMA Modifications			
Models of Systems Affected: RC-12				Modification Type: Unclassified				Related RDT&E PEs:					
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Procurement													
<i>Modification Item 1 of 1: Guardrail Common Sensor SEMA Modifications</i>													
A Kits													
Recurring													
STE	- / -	- / -	- / -	- / 0.085	- / -	- / 0.085	- / 0.083	- / 0.111	- / 0.112	- / 0.112	- / -	- / 0.503	
Training	- / -	- / -	- / -	- / 0.104	- / -	- / 0.104	- / 0.103	- / 0.138	- / 0.139	- / 0.140	- / -	- / 0.624	
Data	- / -	- / -	- / -	- / 0.081	- / -	- / 0.081	- / 0.084	- / 0.106	- / 0.107	- / 0.108	- / -	- / 0.486	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 0.270	- / -	- / 0.270	- / 0.270	- / 0.355	- / 0.358	- / 0.360	- / -	- / 1.613	
<i>Subtotal: Guardrail Common Sensor SEMA Modifications</i>	- / -	- / -	- / -	- / 0.270	- / -	- / 0.270	- / 0.270	- / 0.355	- / 0.358	- / 0.360	- / -	- / 1.613	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 0.270	- / -	- / 0.270	- / 0.270	- / 0.355	- / 0.358	- / 0.360	- / -	- / 1.613	
Installation													
<i>Modification Item 1 of 1: Guardrail Common Sensor SEMA Modifications</i>													
	- / -	- / -	- / -	3 / 3.749	- / -	3 / 3.749	3 / 3.821	4 / 5.201	4 / 5.305	4 / 5.411	- / -	18 / 23.487	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	3 / 3.749	- / -	3 / 3.749	3 / 3.821	4 / 5.201	4 / 5.305	4 / 5.411	- / -	18 / 23.487	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	4.019	-	4.019	4.091	5.556	5.663	5.771	-	25.100	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A02111 / GRCS SEMA Mods (MIP)	Modification Number / Title: A02111 / Guardrail Common Sensor SEMA Modifications

Modification Item 1 of 1: Guardrail Common Sensor SEMA Modifications

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 8

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Jan 2016	Jan 2017	Jan 2018	Jan 2019	Jan 2020
Delivery Dates			Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020

Installation Information

Method of Implementation: Guardrail Common Sensor SEMA Modifications

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)											
Prior Years	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	3 / 3.749	- / -	3 / 3.749	- / -	- / -	- / -	- / -	- / -	3 / 3.749
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.821	- / -	- / -	- / -	- / -	3 / 3.821
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 5.201	- / -	- / -	- / -	4 / 5.201
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 5.305	- / -	- / -	4 / 5.305
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 5.411	- / -	4 / 5.411
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	3 / 3.749	- / -	3 / 3.749	3 / 3.821	4 / 5.201	4 / 5.305	4 / 5.411	- / -	18 / 23.487

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	-	-	-	-	-	-	1	-	-	-	3	-	-	-	3	-	-	-	4	-	-	-	4	-	-	-	4	-	-	-	-	19
Out	-	-	-	-	-	-	-	-	1	-	-	-	3	-	-	-	3	-	-	-	4	-	-	-	4	-	-	-	4	-	-	19

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A02110 / ARL SEMA Mods (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:						Other Related Program Elements: 0305206A					
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	16.302	32.000	48.302	33.933	21.364	21.780	22.194	-	147.573
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	-	16.302	32.000	48.302	33.933	21.364	21.780	22.194	-	147.573
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	16.302	32.000	48.302	33.933	21.364	21.780	22.194	-	147.573
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	12,075.500	-	12,075.500	-	-	-	-	-	5,270.464

Description:

The budget line supports the conversion of Special Electronic Mission Aircraft (SEMA) Government Owned Contractor Operated (GOCO) Quick Reaction Capability (QRC) Aerial Intelligence Surveillance & Reconnaissance (AISR) systems; four (4) Saturn Arch (SA), two (2) Desert Owl (DO) and three (3) commercially procured aircraft to be determined at a later date to Airborne Reconnaissance Low-Enhanced (ARL-E) AISR systems. The updates and modernizations include communication, navigation, surveillance, and Department of Defense (DoD) mandated safety equipment to current and evolving international and Army Flight Standards and Engineer, Furnish and Install (EF&I) of modifications as a complete contractual effort. The budget line provides for the procurement of replacement and spare engines for the aircraft as well as the procurement and associated testing of civil and military aircraft modification equipment for ISR Mission Equipment Packages (MEP). Federal Aviation Administration (FAA) supplemental type certificates (STC) that are already in existence and apply to STCs to the aircraft modification will be leveraged. Modifications supported by this budget line ensure continued worldwide deployment capability and safe operations. The associated modifications supported within this budget line ensure worldwide deployability for those required to deploy.

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	16.302	32.000	48.302	33.933	21.364	21.780	22.194
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	-	-	16.302	32.000	48.302	33.933	21.364	21.780	22.194

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A02110 / ARL SEMA Mods (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements: 0305206A		
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)
A02110 / ARL SEMA Modifications (Unclassified)	P-3a		- / -	- / -	- / -	- / 16.302	- / 32.000	- / 48.302
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / 16.302	- / 32.000	- / 48.302
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)
A02110 / ARL SEMA Modifications (Unclassified)	P-3a		- / 33.933	- / 21.364	- / 21.780	- / 22.194	- / -	- / 147.573
Total Gross/Weapon System Cost			- / 33.933	- / 21.364	- / 21.780	- / 22.194	- / -	- / 147.573

*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:
 The FY 2016 OCO \$32.000 million will be utilized to accelerate the installation of four (4) cockpit and aviation survivability equipment (ASE) modifications that will be ongoing for the newly acquired DeHavilland dash 8 aircraft that are replacing the legacy obsolete DeHavilland dash 7 aircraft. By accelerating these modifications with the OCO funding the base procurement dollars of \$16.302 million will be utilized to procure the required spares for the DeHavilland dash 8 aircraft. This funding will aid in accelerating the fielding of the DeHavilland dash 8 aircraft, increasing the Army's capability to detect, locate, classify/identity and track surface targets in day/night and near-all-weather conditions as well as save money by accelerating the replacement of an obsolete aircraft.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10			P-1 Line Item Number / Title: A02110 / ARL SEMA Mods (MIP)				Modification Number / Title: A02110 / ARL SEMA Modifications					

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>)	-	-	-	16.302	32.000	48.302	33.933	21.364	21.780	22.194	-	147.573
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	-	-	-	16.302	32.000	48.302	33.933	21.364	21.780	22.194	-	147.573
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	16.302	32.000	48.302	33.933	21.364	21.780	22.194	-	147.573

(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 Thousands</i>)	-	-	-	12,075.500	-	12,075.500	-	-	-	-	-	5,270.464

Description:

The FY 2016 OCO \$32.000 million will be utilized to accelerate the installation of four (4) cockpit and aviation survivability equipment (ASE) modifications that will be ongoing for the newly acquired DeHavilland dash 8 aircraft that are replacing the legacy obsolete DeHavilland dash 7 aircraft. By accelerating these modifications with the OCO funding the base procurement dollars of \$16.302 million will be utilized to procure the required spares for the DeHavilland dash 8 aircraft. This funding will aid in accelerating the fielding of the DeHavilland dash 8 aircraft, increasing the Army's capability to detect, locate, classify/identity and track surface targets in day/night and near-all-weather conditions as well as save money by accelerating the replacement of an obsolete aircraft.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	16.302	32.000	48.302	33.933	21.364	21.780	22.194
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	16.302	32.000	48.302	33.933	21.364	21.780	22.194

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: A02110 / ARL SEMA Mods (MIP)						Modification Number / Title: A02110 / ARL SEMA Modifications			
Models of Systems Affected: ARL SEMA Modifications				Modification Type: Unclassified						Related RDT&E PEs:			
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Procurement													
<i>Modification Item 1 of 1: ARL SEMA Mods</i>													
A Kits													
Recurring													
Program Management	- / -	- / -	- / -	1 / 4.355	4 / 4.444	5 / 8.799	1 / 5.575	1 / 4.531	1 / 4.622	1 / 5.917	- / -	9 / 29.444	
ECP	- / -	- / -	- / -	- / 11.037	- / -	- / 11.037	- / 10.295	- / 10.299	- / 10.305	- / 11.041	- / -	- / 12.977	
Spares	- / -	- / -	- / -	- / 17.042	- / -	- / 17.042	- / -	- / -	- / -	- / -	- / -	- / 17.042	
DATA	- / -	- / -	- / -	- / 11.024	- / -	- / 11.024	- / 10.289	- / 10.293	- / 10.299	- / 11.020	- / -	- / 12.925	
Support Equipment	- / -	- / -	- / -	- / 10.445	- / -	- / 10.445	- / 10.023	- / -	- / -	- / 10.162	- / -	- / 10.630	
System Test & Evaluation	- / -	- / -	- / -	- / 12.399	- / -	- / 12.399	- / 19.732	- / 12.816	- / 14.422	- / 10.216	- / -	- / 16.585	
Training	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.059	- / 10.061	- / 10.037	- / 10.038	- / -	- / 10.195	
Sensor Integration	- / -	- / -	- / -	- / -	- / -	- / -	- / 110.933	- / 113.364	- / 115.095	- / 16.343	- / -	- / 145.735	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 16.302	- / 4.444	- / 20.746	- / 26.906	- / 21.364	- / 21.780	- / 14.737	- / -	- / 105.533	
<i>Subtotal: ARL SEMA Mods</i>	- / -	- / -	- / -	1 / 16.302	4 / 4.444	5 / 20.746	1 / 26.906	1 / 21.364	1 / 21.780	1 / 14.737	- / -	9 / 105.533	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	1 / 16.302	4 / 4.444	5 / 20.746	1 / 26.906	1 / 21.364	1 / 21.780	1 / 14.737	- / -	9 / 105.533	
Installation													
<i>Modification Item 1 of 1: ARL SEMA Mods</i>	- / -	- / -	- / -	- / -	- / 27.556	- / 27.556	- / 17.027	- / -	- / -	- / 17.457	- / -	- / 42.040	
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / 27.556	- / 27.556	- / 17.027	- / -	- / -	- / 17.457	- / -	- / 42.040	
Total													
Total Cost (Procurement + Support + Installation)	-	-	-	16.302	32.000	48.302	33.933	21.364	21.780	22.194	-	147.573	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A02110 / ARL SEMA Mods (MIP)	Modification Number / Title: A02110 / ARL SEMA Modifications

Modification Item 1 of 1: ARL SEMA Mods

Manufacturer Information

Manufacturer Name: Various				Manufacturer Location: Various			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 12			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Feb 2016	Feb 2017	Feb 2018	Feb 2019	
Delivery Dates			Feb 2017	Feb 2018	Feb 2019		

Installation Information

Method of Implementation: ARL SEMA Modifications

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)											
Prior Years	- / -	- / -	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / 127.556	- / 127.556	- / -	- / -	- / -	- / -	- / -	- / 127.556
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.027	- / -	- / -	- / -	- / -	- / 17.027
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.457	- / -	- / 17.457
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	- / -	- / 127.556	- / 127.556	- / 17.027	- / -	- / -	- / 17.457	- / -	- / 142.040

Installation Schedule

PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
	Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	2	-	-	-	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	1	9	
Out	-	-	-	-	-	-	-	-	-	2	-	-	-	4	-	-	-	1	-	-	-	-	-	-	-	-	-	2	9	

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A02112 / EMARSS SEMA Mods (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:						Other Related Program Elements:					
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	13.669	-	13.669	13.366	3.305	21.294	4.451	-	56.085
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	-	-	13.669	-	13.669	13.366	3.305	21.294	4.451	-	56.085
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	13.669	-	13.669	13.366	3.305	21.294	4.451	-	56.085

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	13,669.000	-	13,669.000	-	-	-	-	-	2,003.036

Description:

The budget line supports the modification of Special Electronic Mission Aircraft (SEMA) Government-owned Quick Reaction Capability (QRC) Aerial Intelligence Surveillance & Reconnaissance (AISR) systems: Liberty Project Aircraft (LPA), Constant Hawk (CH) and Tactical Operations (TACOP), VADER (Vehicle and Dismount exploitation Radar)to Enhanced Medium Altitude Reconnaissance and Surveillance Systems (EMARSS). These modernizations will include significant aircraft and mission equipment package (MEP) communications and network changes and leverage existing integration of Intelligence sensor technologies. The budget line provides for the procurement of replacement and spare engines for the aircraft. In addition, it provides for the procurement and associated testing of civil and military aircraft modification equipment for ISR MEP. Additional modernizations include aircraft navigation, surveillance, survivability equipment enhancements and P3I (Pre-Planned Product Improvement)for EMARSS Program of Record (POR). These modifications address all Department of Defense (DoD) mandated safety equipment to current and evolving international and Army Standards. In addition, it provides for the procurement and associated testing of civil and military aircraft modification equipment for AISR Mission Equipment Packages (MEP). This budget line will also be used to modify the aircraft to include Engineer, Furnish and Install (EF&I) of modifications as a complete contractual effort. It also leverages Federal Aviation Administration (FAA) supplemental type certificates (STC) that are already in existence and applies to STCs to the aircraft modifications. These modifications ensure continued worldwide deployment capability and safe operations.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	13.669	-	13.669	13.366	3.305	21.294	4.451
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	13.669	-	13.669	13.366	3.305	21.294	4.451

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A02112 / EMARSS SEMA Mods (MIP)
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
A02112 / EMARSS Modifications (Unclassified)	P-3a		- / -	- / -	- / -	- / 13.669	- / -	- / 13.669
Total Gross/Weapon System Cost			- / -	- / -	- / -	- / 13.669	- / -	- / 13.669
Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
A02112 / EMARSS Modifications (Unclassified)	P-3a		- / 13.366	- / 3.305	- / 21.294	- / 4.451	- / -	- / 56.085
Total Gross/Weapon System Cost			- / 13.366	- / 3.305	- / 21.294	- / 4.451	- / -	- / 56.085

*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:

FY16 base procurement dollars in the amount of \$13.669 million support modifications to one (1) QRC aircraft into the EMARSS POR.

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A02112 / EMARSS SEMA Mods (MIP)	Modification Number / Title: A02112 / EMARSS Modifications
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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>)	-	-	-	13.669	-	13.669	13.366	3.305	21.294	4.451	-	56.085
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	-	-	-	13.669	-	13.669	13.366	3.305	21.294	4.451	-	56.085
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	-	-	13.669	-	13.669	13.366	3.305	21.294	4.451	-	56.085

(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 Thousands</i>)	-	-	-	13,669.000	-	13,669.000	-	-	-	-	-	2,003.036

Description:

FY16 base procurement dollars in the amount of \$13.669 million support modifications to one (1) QRC aircraft into the EMARSS POR.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	13.669	-	13.669	13.366	3.305	21.294	4.451
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	13.669	-	13.669	13.366	3.305	21.294	4.451

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: A02112 / EMARSS SEMA Mods (MIP)						Modification Number / Title: A02112 / EMARSS Modifications		
Models of Systems Affected: EMARSS				Modification Type: Unclassified				Related RDT&E PEs:				
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
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>			
Procurement												
<i>Modification Item 1 of 1: EMARSS Modifications</i>												
A Kits												
Recurring												
Program Management	- / -	- / -	- / -	1 / 4.676	- / -	1 / 4.676	1 / 4.770	1 / 2.279	2 / 6.072	1 / 3.405	- / -	6 / 21.202
ECP	- / -	- / -	- / -	- / 0.207	- / -	- / 0.207	- / 0.214	- / 0.028	- / 0.270	- / 0.014	- / -	- / 0.733
DATA	- / -	- / -	- / -	- / 0.202	- / -	- / 0.202	- / 0.210	- / 0.027	- / 0.265	- / 0.014	- / -	- / 0.718
Spares	- / -	- / -	- / -	- / 0.330	- / -	- / 0.330	- / 0.343	- / 0.045	- / 0.432	- / 0.022	- / -	- / 1.172
Support Equipment	- / -	- / -	- / -	- / 0.038	- / -	- / 0.038	- / 0.040	- / 0.005	- / 0.050	- / 0.003	- / -	- / 0.136
System Test & Evaluation	- / -	- / -	- / -	- / 0.255	- / -	- / 0.255	- / 0.260	- / 0.102	- / 0.466	- / 0.068	- / -	- / 1.151
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 5.708	- / -	- / 5.708	- / 5.837	- / 2.486	- / 7.555	- / 3.526	- / -	- / 25.112
<i>Subtotal: EMARSS Modifications</i>	- / -	- / -	- / -	1 / 5.708	- / -	1 / 5.708	1 / 5.837	1 / 2.486	2 / 7.555	1 / 3.526	- / -	6 / 25.112
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	1 / 5.708	- / -	1 / 5.708	1 / 5.837	1 / 2.486	2 / 7.555	1 / 3.526	- / -	6 / 25.112
Installation												
<i>Modification Item 1 of 1: EMARSS Modifications</i>												
<i>Subtotal: Installation</i>	- / -	- / -	- / -	1 / 7.961	- / -	1 / 7.961	1 / 7.529	1 / 0.819	2 / 13.739	1 / 0.925	- / -	6 / 30.973
Total												
Total Cost (Procurement + Support + Installation)	-	-	-	13.669	-	13.669	13.366	3.305	21.294	4.451	-	56.085

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A02112 / EMARSS SEMA Mods (MIP)	Modification Number / Title: A02112 / EMARSS Modifications

Modification Item 1 of 1: EMARSS Modifications

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

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

Installation Information

Method of Implementation: EMARSS Modifications

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)											
Prior Years	- / -	- / -	- / -	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	1 / 7.961	- / -	1 / 7.961	- / -	- / -	- / -	- / -	- / -	1 / 7.961
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	1 / 7.529	- / -	- / -	- / -	- / -	1 / 7.529
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.819	- / -	- / -	- / -	1 / 0.819
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 13.739	- / -	- / -	2 / 13.739
FY 2020	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.925	- / -	1 / 0.925
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	- / -	- / -	- / -	1 / 7.961	- / -	1 / 7.961	1 / 7.529	1 / 0.819	2 / 13.739	1 / 0.925	- / -	6 / 30.973

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	11	-	-	1	-	-	-	1	-	-	-	1	-	-	-	2	-	-	-	1	-	-	-	-	-
Out	-	-	-	-	-	-	-	-	-	11	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	2	-	-	-	1	-

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0270 / Utility/Cargo Airplane Mods
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
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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>	242.120	11.500	15.029	16.166	-	16.166	17.683	16.525	16.562	15.773	-	351.358
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	242.120	11.500	15.029	16.166	-	16.166	17.683	16.525	16.562	15.773	-	351.358
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	242.120	11.500	15.029	16.166	-	16.166	17.683	16.525	16.562	15.773	-	351.358

(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 Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	808.300	-	808.300	-	-	-	-	-	12,548.500

Description:

The budget line supports the updates and modernization of Army fixed wing aircraft communication, navigation, surveillance, survivability equipment, and Department of Defense (DoD) mandated safety equipment to current and evolving international and Army standards. The budget line provides for the procurement of replacement and spare engines for fixed wing aircraft. In addition, it provides for the procurement and associated testing of civil and military aircraft modification equipment including integration of Intelligence, Surveillance and Reconnaissance (ISR) Mission Equipment Packages (MEP). This budget line will also be used to modify fixed wing aircraft (C-12 (all variants), C-23, C-31, C-208B, E05, UV-18, C-20, C-37, T-6, RC-12 (all variants), UC-35, and B300) to include Engineer, Furnish and Install (EF&I) of modifications as a complete contractual effort. It also leverages Federal Aviation Administration (FAA) supplemental type certificates (STC) that are already in existence and applies STCs to aircraft modifications. These modifications ensure continued worldwide deployment capability and safe operations.

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.500	5.702	8.809	-	8.809	5.127	7.467	2.989
ANG	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.893	7.357	-	7.357	4.168	2.240	7.546
AR	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	5.434	-	-	-	8.388	6.818	6.027
Total: Secondary Distribution	Quantity	-							
	Total Obligation Authority	11.500	15.029	16.166	-	16.166	17.683	16.525	16.562

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0270 / Utility/Cargo Airplane Mods
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
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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)
AA0270 / Fixed Wing Aircraft Modifications (Rationalization, Standardization, Interoperability, Compatibility, Simplification)	P-3a		- / 242.120	- / 11.500	- / 15.029	- / 16.166	- / -	- / 16.166
Total Gross/Weapon System Cost			- / 242.120	- / 11.500	- / 15.029	- / 16.166	- / -	- / 16.166

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)
AA0270 / Fixed Wing Aircraft Modifications (Rationalization, Standardization, Interoperability, Compatibility, Simplification)	P-3a		- / 17.683	- / 16.525	- / 16.562	- / 15.773	- / -	- / 351.358
Total Gross/Weapon System Cost			- / 17.683	- / 16.525	- / 16.562	- / 15.773	- / -	- / 351.358

*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:
 FY16 Base procurement dollars in the amount of \$16.166 million support aircraft modifications to Communications, Navigation, and Surveillance (CNS) and Aircraft Survivability Equipment (ASE) that meets current and future air traffic management requirements.

In addition, equipment included in the modifications will enhance the safety of passengers and crew. The upgrades will also permit the Army fixed wing aircraft to operate in compliance with other existing and emerging regulations. As requirement for new avionics equipment continue, aircraft delays and airspace exclusions are likely for aircraft not properly equipped. Upgrade of communication and navigation systems will enhance reliability and maintainability, thereby improving aircraft availability for mission requirements. The associated aircraft modifications will assure worldwide deployability for those required to deploy.

The FY16 funding request was reduced by \$.195 million to account for the availability of prior year execution balances.

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Exhibit P-3a, Individual Modification: PB 2016 Army							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0270 / Utility/Cargo Airplane Mods				Modification Number / Title: AA0270 / Fixed Wing Aircraft Modifications				

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>)	242.120	11.500	15.029	16.166	-	16.166	17.683	16.525	16.562	15.773	-	351.358
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	242.120	11.500	15.029	16.166	-	16.166	17.683	16.525	16.562	15.773	-	351.358
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	242.120	11.500	15.029	16.166	-	16.166	17.683	16.525	16.562	15.773	-	351.358
<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 Thousands</i>)	-	-	-	808.300	-	808.300	-	-	-	-	-	12,548.500

Description:

The budget line supports the updates and modernization of Army fixed wing aircraft communication, navigation, surveillance, survivability equipment, and Department of Defense (DoD) mandated safety equipment to current and evolving international and Army standards. The budget line provides for the procurement of replacement and spare engines for fixed wing aircraft. In addition, it provides for the procurement and associated testing of civil and military aircraft modification equipment including integration of Intelligence, Surveillance and Reconnaissance (ISR) Mission Equipment Packages (MEP). This budget line will also be used to modify fixed wing aircraft to include Engineer, Furnish and Install (EF&I) of modifications as a complete contractual effort. It also leverages Federal Aviation Administration (FAA) supplemental type certificates (STC) that are already in existence and applies STCs to aircraft modifications. These modifications ensure continued worldwide deployment capability and safe operations.

FY16 Base procurement dollars in the amount of \$16.166 million support aircraft modifications to Communications, Navigation, and Surveillance (CNS) and Aircraft Survivability Equipment (ASE) that meets current and future air traffic management requirements.

In addition, equipment included in the modifications will enhance the safety of passengers and crew. The upgrades will also permit the Army fixed wing aircraft to operate in compliance with other existing and emerging regulations. As requirement for new avionics equipment continue, aircraft delays and airspace exclusions are likely for aircraft not properly equipped. Upgrade of communication and navigation systems will enhance reliability and maintainability, thereby improving aircraft availability for mission requirements. The associated aircraft modifications will assure worldwide deployability for those required to deploy.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	11.500	5.702	8.809	-	8.809	5.127	7.467	2.989	5.517
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	3.893	7.357	-	7.357	4.168	2.240	7.546	3.934
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	5.434	-	-	-	8.388	6.818	6.027	6.322
Total:	Quantity	-	-	-	-	-	-	-	-	-

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Exhibit P-3a, Individual Modification: PB 2016 Army							Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10			P-1 Line Item Number / Title: AA0270 / Utility/Cargo Airplane Mods				Modification Number / Title: AA0270 / Fixed Wing Aircraft Modifications			
Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Secondary Distribution	Total Obligation Authority	11.500	15.029	16.166	-	16.166	17.683	16.525	16.562	15.773

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0270 / Utility/Cargo Airplane Mods						Modification Number / Title: AA0270 / Fixed Wing Aircraft Modifications			
Models of Systems Affected: All series Army fixed wing aircraft				Modification Type: Rationalization, Standardization, Interoperability, Compatibility, Simplification						Related RDT&E PEs:			
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Procurement													
<i>Modification Item 1 of 1: Fixed Wing Aircraft Modifications</i>													
A Kits													
Recurring													
Installation Kits	227 / 168.546	9 / 6.874	17 / 8.955	20 / 9.639	- / -	20 / 9.639	21 / 10.556	29 / 9.865	22 / 9.887	20 / 9.416	- / -	365 / 233.738	
Data	0 / 0.400	- / 0.044	- / 0.104	- / 0.047	- / -	- / 0.047	- / 0.089	- / 0.083	- / 0.083	- / 0.079	- / -	- / 0.929	
<i>Subtotal: Recurring</i>	<i>- / 168.946</i>	<i>- / 6.918</i>	<i>- / 9.059</i>	<i>- / 9.686</i>	<i>- / -</i>	<i>- / 9.686</i>	<i>- / 10.645</i>	<i>- / 9.948</i>	<i>- / 9.970</i>	<i>- / 9.495</i>	<i>- / -</i>	<i>- / 234.667</i>	
<i>Subtotal: Fixed Wing Aircraft Modifications</i>	<i>227 / 168.946</i>	<i>9 / 6.918</i>	<i>17 / 9.059</i>	<i>20 / 9.686</i>	<i>- / -</i>	<i>20 / 9.686</i>	<i>21 / 10.645</i>	<i>29 / 9.948</i>	<i>22 / 9.970</i>	<i>20 / 9.495</i>	<i>- / -</i>	<i>365 / 234.667</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>227 / 168.946</i>	<i>9 / 6.918</i>	<i>17 / 9.059</i>	<i>20 / 9.686</i>	<i>- / -</i>	<i>20 / 9.686</i>	<i>21 / 10.645</i>	<i>29 / 9.948</i>	<i>22 / 9.970</i>	<i>20 / 9.495</i>	<i>- / -</i>	<i>365 / 234.667</i>	
Installation													
<i>Modification Item 1 of 1: Fixed Wing Aircraft Modifications</i>	<i>227 / 73.174</i>	<i>9 / 4.582</i>	<i>17 / 5.970</i>	<i>20 / 6.480</i>	<i>- / -</i>	<i>20 / 6.480</i>	<i>21 / 7.038</i>	<i>29 / 6.577</i>	<i>22 / 6.592</i>	<i>20 / 6.278</i>	<i>- / -</i>	<i>365 / 116.691</i>	
<i>Subtotal: Installation</i>	<i>227 / 73.174</i>	<i>9 / 4.582</i>	<i>17 / 5.970</i>	<i>20 / 6.480</i>	<i>- / -</i>	<i>20 / 6.480</i>	<i>21 / 7.038</i>	<i>29 / 6.577</i>	<i>22 / 6.592</i>	<i>20 / 6.278</i>	<i>- / -</i>	<i>365 / 116.691</i>	
Total													
Total Cost (Procurement + Support + Installation)	242.120	11.500	15.029	16.166	-	16.166	17.683	16.525	16.562	15.773	-	351.358	

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0270 / Utility/Cargo Airplane Mods	Modification Number / Title: AA0270 / Fixed Wing Aircraft Modifications

Modification Item 1 of 1: Fixed Wing Aircraft Modifications

Manufacturer Information

Manufacturer Name: Multiple Commercial Lenders	Manufacturer Location: TBD
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 6

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019
Delivery Dates	Jun 2014	Jun 2015	Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020

Installation Information

Method of Implementation: Contractor

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)											
Prior Years	227 / 73.174	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	227 / 73.174
FY 2014	0 / 0.000	9 / 4.582	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 4.582
FY 2015	0 / 0.000	- / -	17 / 5.970	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 5.970
FY 2016	0 / 0.000	- / -	- / -	20 / 6.480	- / -	20 / 6.480	- / -	- / -	- / -	- / -	- / -	20 / 6.480
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	21 / 7.038	- / -	- / -	- / -	- / -	21 / 7.038
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	29 / 6.577	- / -	- / -	- / -	29 / 6.577
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 6.592	- / -	- / -	22 / 6.592
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	20 / 6.278	- / -	20 / 6.278
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	227 / 73.174	9 / 4.582	17 / 5.970	20 / 6.480	- / -	20 / 6.480	21 / 7.038	29 / 6.577	22 / 6.592	20 / 6.278	- / -	365 / 116.691

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	227	2	2	2	3	4	4	4	5	5	5	5	5	5	5	5	6	8	7	7	7	5	5	6	6	5	5	5	5	-	365
Out	222	5	2	2	2	3	4	4	4	5	5	5	5	5	5	5	5	6	8	7	7	7	5	5	6	6	5	5	5	5	365

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0480 / Utility Helicopter Mods
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Resource Summary	Prior Years	Program Elements for Code B Items:					Other Related Program Elements:					
		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>)	1,400.486	88.095	76.515	13.793	-	13.793	10.904	5.946	5.947	5.947	-	1,607.633
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	1,400.486	88.095	76.515	13.793	-	13.793	10.904	5.946	5.947	5.947	-	1,607.633
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,400.486	88.095	76.515	13.793	-	13.793	10.904	5.946	5.947	5.947	-	1,607.633

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Utility Helicopter Mods include modifications to the UH-60 Black Hawk and the UH-72A Lakota helicopters. The UH-60 Black Hawk helicopter is the Army's utility helicopter in the future force. It is a twin engine, single rotor, four bladed utility helicopter used for air assault, general support, command & control, and aero-medical evacuations (MEDEVAC). The UH-60 is joint force capable, providing 24 hour/day support including operations at night and in adverse weather conditions. The UH-60 is designed to carry a crew of four plus eleven combat equipped troops or an external load up to 9,000 pounds. The UH-60 Black Hawk was fielded in 1978 as a replacement for the UH-1. From 1978 to 1988, UH-60As were produced. In 1989 production of UH-60Ls with improved engines and drive train began. In 2007, full rate production of UH-60Ms began which provided a digital cockpit, digital Flight Management System (FMS), improved engine, and wide-cord main rotor blades. The UH-72A Lakota helicopter provides general aviation support for aviation units in the active and reserve components.

FY16 Base procurement dollars in the amount of \$13.793 million will procure External High Speed Hoists. The External High Speed Hoist is a modification to UH-60A/L aircraft developed to supplement and eventually replace the internal rescue hoist currently in use. The existing internal hoist has significant obsolescence issues and takes up valuable cabin space in the aircraft thus the Army decided to standardize the external hoist configuration as employed on the HH-60A/L/M. The UH-60 A to L Conversion program expands the current UH-60 A to A recapitalization/rebuild. Effective in FY16 all A to L conversions and UH-60L Digital, now designated as UH-60V, conversions will be procured under line A05009. Prior to FY16 the funding for UH-60 A to L conversions was conducted under this line AA0492.

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

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	43.220	51.921	13.793	-	13.793	10.904	5.946	5.947	5.947
ANG	Quantity	-	-	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0480 / Utility Helicopter Mods
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ID Code (A=Service Ready, B=Not Service Ready) :		Program Elements for Code B Items:				Other Related Program Elements:			
Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Total Obligation Authority	27.197	24.594	-	-	-	-	-	-	-
AR									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	17.678	-	-	-	-	-	-	-	-
Total:									
Secondary Distribution									
Quantity	-	-	-	-	-	-	-	-	-
Total Obligation Authority	88.095	76.515	13.793	-	13.793	10.904	5.946	5.947	5.947

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

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft

P-1 Line Item Number / Title:
AA0480 / Utility Helicopter Mods

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

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)
AA0492 / Utility Helicopter Modifications (Operational)	P-3a		- / 1,400.486	- / 88.095	- / 76.515	- / 13.793	- / -	- / 13.793
Total Gross/Weapon System Cost			- / 1,400.486	- / 88.095	- / 76.515	- / 13.793	- / -	- / 13.793

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)
AA0492 / Utility Helicopter Modifications (Operational)	P-3a		- / 10.904	- / 5.946	- / 5.947	- / 5.947	- / -	- / 1,607.633
Total Gross/Weapon System Cost			- / 10.904	- / 5.946	- / 5.947	- / 5.947	- / -	- / 1,607.633

*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.

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Exhibit P-3a, Individual Modification: PB 2016 Army							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0480 / Utility Helicopter Mods				Modification Number / Title: AA0492 / Utility Helicopter Modifications				

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>)	1,400.486	88.095	76.515	13.793	-	13.793	10.904	5.946	5.947	5.947	-	1,607.633
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	1,400.486	88.095	76.515	13.793	-	13.793	10.904	5.946	5.947	5.947	-	1,607.633
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,400.486	88.095	76.515	13.793	-	13.793	10.904	5.946	5.947	5.947	-	1,607.633

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Utility Helicopter Mods include modifications to the UH-60 Black Hawk and the UH-72A Lakota helicopter.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	43.220	51.921	13.793	-	13.793	10.904	5.946	5.947	5.947
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	27.197	24.594	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	17.678	-	-	-	-	-	-	-	-
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	88.095	76.515	13.793	-	13.793	10.904	5.946	5.947	5.947

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0480 / Utility Helicopter Mods						Modification Number / Title: AA0492 / Utility Helicopter Modifications			
Models of Systems Affected: UH-60L				Modification Type: Operational				Related RDT&E PEs:					
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Procurement													
Modification Item 1 of 6: Crashworthy External Fuel System (CEFS)													
A Kits													
Recurring													
A-Kits (A/L)	884 / 45.857	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	884 / 45.857	
A-Kits (GFE to Production)	32 / 2.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 2.700	
A-Kits (GFE to SAR Acft)	10 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.600	
B-kits	463 / 56.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	463 / 56.200	
Support Equipment/Other	0 / 34.605	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 34.605	
Subtotal: Recurring	- / 139.962	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 139.962	
Subtotal: Crashworthy External Fuel System (CEFS)	1,389 / 139.962	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,389 / 139.962	
Modification Item 2 of 6: UH-60A to UH-60L Conversion													
A Kits													
Recurring													
other	127 / 221.293	40 / 46.235	55 / 61.485	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	222 / 329.013	
Subtotal: Recurring	- / 221.293	- / 46.235	- / 61.485	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 329.013	
Non-Recurring													
other	0 / 822.788	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 822.788	
Subtotal: Non-Recurring	- / 822.788	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 822.788	
Subtotal: UH-60A to UH-60L Conversion	127 / 1,044.081	40 / 46.235	55 / 61.485	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	222 / 1,151.801	
Modification Item 3 of 6: External High Speed Hoist													
A Kits													
Recurring													
Other	67 / 21.140	65 / 21.190	44 / 12.291	45 / 13.793	- / -	45 / 13.793	30 / 10.904	- / -	- / -	- / -	- / -	251 / 79.318	
Subtotal: Recurring	- / 21.140	- / 21.190	- / 12.291	- / 13.793	- / -	- / 13.793	- / 10.904	- / -	- / -	- / -	- / -	- / 79.318	
Subtotal: External High Speed Hoist	67 / 21.140	65 / 21.190	44 / 12.291	45 / 13.793	- / -	45 / 13.793	30 / 10.904	- / -	- / -	- / -	- / -	251 / 79.318	
Modification Item 4 of 6: Enhanced Ballistics Armor Protections System													
A Kits													
Recurring													
Kit Quantity	- / -	- / -	- / -	- / -	- / -	- / -	- / -	49 / 5.946	49 / 5.947	49 / 5.947	- / -	147 / 17.840	
Other	- / -	- / 5.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.000	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0480 / Utility Helicopter Mods						Modification Number / Title: AA0492 / Utility Helicopter Modifications			
Models of Systems Affected: UH-60L				Modification Type: Operational				Related RDT&E PEs:					
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
<i>Subtotal: Recurring</i>	- / -	- / 5.000	- / -	- / -	- / -	- / -	- / -	- / 5.946	- / 5.947	- / 5.947	- / -	- / 22.840	
<i>Subtotal: Enhanced Ballistics Armor Protections System</i>	- / -	- / 5.000	- / -	- / -	- / -	- / -	- / -	49 / 5.946	49 / 5.947	49 / 5.947	- / -	147 / 22.840	
Modification Item 5 of 6: Upturned Exhaust System (UES)													
A Kits													
Non-Recurring													
Non Recurring	- / -	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	
<i>Subtotal: Non-Recurring</i>	- / -	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	
<i>Subtotal: Upturned Exhaust System (UES)</i>	- / -	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.000	
Modification Item 6 of 6: Backup Altitude Indicators													
A Kits													
Recurring													
Kit Quantity	- / -	265 / 14.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	265 / 14.000	
<i>Subtotal: Recurring</i>	- / -	- / 14.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.000	
<i>Subtotal: Backup Altitude Indicators</i>	- / -	265 / 14.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	265 / 14.000	
<i>Subtotal: Procurement, All Modification Items</i>	1,583 / 1,205.183	370 / 86.425	99 / 74.776	45 / 13.793	- / -	45 / 13.793	30 / 10.904	49 / 5.946	49 / 5.947	49 / 5.947	- / -	2,274 / 1,408.921	
Installation													
Modification Item 1 of 6: Crashworthy External Fuel System (CEFS)	81 / 1.200	117 / 1.670	116 / 1.739	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	314 / 4.609	
Modification Item 2 of 6: UH-60A to UH-60L Conversion	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 3 of 6: External High Speed Hoist	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 4 of 6: Enhanced Ballistics Armor Protections System	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 5 of 6: Upturned Exhaust System (UES)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Modification Item 6 of 6: Backup Altitude Indicators	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	81 / 1.200	117 / 1.670	116 / 1.739	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	314 / 4.609	
Total													
Total Cost (Procurement + Support + Installation)	1,400.486	88.095	76.515	13.793	-	13.793	10.904	5.946	5.947	5.947	-	1,607.633	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0480 / Utility Helicopter Mods	Modification Number / Title: AA0492 / Utility Helicopter Modifications

Modification Item 1 of 6: Crashworthy External Fuel System (CEFS)

Manufacturer Information

Manufacturer Name: Robertson Fuel Systems, LLC	Manufacturer Location: Tempe, AZ
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 2

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Nov 2013	Nov 2014					
Delivery Dates	Jan 2014	Jan 2015					

Installation Information

Method of Implementation: Various

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)											
Prior Years	81 / 1.200	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	81 / 1.200
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	117 / 1.670	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	117 / 1.670
FY 2016	0 / 0.000	- / -	116 / 1.739	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	116 / 1.739
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	81 / 1.200	117 / 1.670	116 / 1.739	- / -	314 / 4.609							

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	964	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	964
Out	950	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	964

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0480 / Utility Helicopter Mods	Modification Number / Title: AA0492 / Utility Helicopter Modifications

Modification Item 2 of 6: UH-60A to UH-60L Conversion

Manufacturer Information

Manufacturer Name: Corpus Christi Army Depot	Manufacturer Location: Corpus Christi Army Depot
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Oct 2013	Oct 2014					
Delivery Dates	Oct 2014	Oct 2015					

Installation Information

Method of Implementation: Depot

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	181	10	10	10	10	14	14	14	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	276
Out	139	10	10	11	11	10	10	10	10	14	14	14	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	276

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0480 / Utility Helicopter Mods	Modification Number / Title: AA0492 / Utility Helicopter Modifications

Modification Item 3 of 6: External High Speed Hoist

Manufacturer Information

Manufacturer Name: Breeze Eastern, Inc	Manufacturer Location: Whippany, NJ
Administrative Leadtime (in Months): 1	Production Leadtime (in Months): 4

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	May 2014	May 2015	May 2016	May 2017			
Delivery Dates	Oct 2015	Oct 2016	Oct 2017	Oct 2018			

Installation Information

Method of Implementation: Various

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	67	16	16	16	17	11	11	11	11	12	11	11	11	7	8	8	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	251
Out	58	9	16	16	16	17	11	11	11	11	12	11	11	11	7	8	8	7	-	-	-	-	-	-	-	-	-	-	-	-	-	251

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0480 / Utility Helicopter Mods	Modification Number / Title: AA0492 / Utility Helicopter Modifications

Modification Item 4 of 6: Enhanced Ballistics Armor Protections System

Manufacturer Information

Manufacturer Name: TPG	Manufacturer Location: Miami Lakes, Florida
Administrative Leadtime (in Months):	Production Leadtime (in Months):

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates					May 2018	May 2019	May 2020
Delivery Dates					Oct 2019	Oct 2020	Oct 2021

Installation Information

Method of Implementation: Various

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	13	12	12	12	13	12	12	12	13	12	12	-	147
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	13	12	12	12	13	12	12	12	12	25	147

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0480 / Utility Helicopter Mods	Modification Number / Title: AA0492 / Utility Helicopter Modifications

Modification Item 6 of 6: Backup Altitude Indicators

Manufacturer Information

Manufacturer Name: PIF				Manufacturer Location: Redstone Arsenal Alabama			
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	Jul 2014						
Delivery Dates	Nov 2015						

Installation Information

Method of Implementation: Various

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	67	66	66	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265
Out	-	-	-	67	66	66	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	265

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AZ2200 / Kiowa Mods Warrior
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Resource Summary	Prior Years	Program Elements for Code B Items:					Other Related Program Elements:						
		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 (Units in Each)	1	-	-	-	-	-	-	-	-	-	-	1	
Gross/Weapon System Cost (\$ in Millions)	4,049.746	108.282	-	-	-	-	-	-	-	-	-	13.200	4,171.228
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	4,049.746	108.282	-	-	-	-	-	-	-	-	-	13.200	4,171.228
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	4,049.746	108.282	-	-	-	-	-	-	-	-	-	13.200	4,171.228

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	4,049,746.000	-	-	-	-	-	-	-	-	-	-	4,171,228.000

Description:

The Kiowa Warrior is a two-seat, single-engine, observation, scout/attack helicopter with four main rotor blades. It utilizes a thermal-imaging system and a laser rangefinder/designator in a mast-mounted sight situated above the main rotor system. The aircraft is equipped with a variety of weapon systems including: HELLFIRE, 2.75-inch rockets, and a .50-caliber machine gun. The aircraft operates autonomously and teamed with other manned and unmanned aerial systems at standoff ranges providing armed reconnaissance, command and control, and target acquisition/designation for Apache helicopters and other airborne weapons platforms in day, night, and adverse-weather conditions. The Active Army and the National Guard fly Kiowa Warriors.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	108.282	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	108.282	-	-	-	-	-	-	-	-

Justification:

As part of the Army's Aviation Restructure Initiative (ARI), only \$25 million was released to the ASH PM. These funds support termination of production activities and procurement of critical safety related enhancements to the fleet.

There are no FY2016 and beyond funds requested.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft		P-1 Line Item Number / Title: AZ2200 / Kiowa Mods Warrior
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
All COMPO 1 Active		

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0712 / Network And Mission Plan
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements: 0604201A
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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>	248.959	59.326	105.380	112.807	-	112.807	102.378	137.596	143.529	146.959	-	1,056.934
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	248.959	59.326	105.380	112.807	-	112.807	102.378	137.596	143.529	146.959	-	1,056.934
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	248.959	59.326	105.380	112.807	-	112.807	102.378	137.596	143.529	146.959	-	1,056.934

(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 Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	196.186	-	196.186	-	-	-	-	-	1,056,934.000

Description:

The Network and Mission Plan budget line includes the Aviation Mission Planning System (AMPS), the Improved Data Modem (IDM), the Aviation Data Exploitation Capability (ADEC), the Aircraft Notebook (ACN), and the Aviation Logistics Enterprise-Platform (ALE-P).

The AMPS is a mission planning/battle synchronization tool that automates aviation mission planning tasks, including tactical command and control, mission planning, and flight planning. It interfaces with Army Mission Command Systems (AMCS) and associated networks which furnish the aviation commander with continuous situational awareness, allowing the commander to rapidly adjust mission plans. AMPS generates mission data in either hard copy or electronic formats. The electronic formats are loaded onto the aircraft platforms, initializing the communication, navigation, situational awareness, and weapons systems on the aircraft including the AH-64D/E, CH-47D/F, OH-58D, UH-60A/L/M/Q/V, HH-60L, LUH-72, EMARSS, and Unmanned Aircraft Systems (UAS). The AMPS program includes management of the Commander's Aviation Risk Tool and the Centralized Aviation Flight Records System (CAFRS). To accommodate rapid commercial technology changes, the overall system hardware is replaced after five years of use.

The IDM is the common solution for digitizing Army Aviation. It performs as an internet controller and gateway to Tactical Internet (TI) and Fire Support (FS) internet for Army aircraft. With interfaces supporting a transmit/receive terminal, the IDM provides radio connectivity to the ARC-201D/231, ARC-186, ARC-164, and the Blue Force Tracker transceiver, as well as providing 1553 and Ethernet portals for rapid data transfer. This hardware/software solution also provides a flexible, software-driven digital messaging system that is interoperable with existing Army and Joint forces battlefield operating systems. The IDM provides Situational Awareness and Joint Variable Message Format messages capability to the cockpit. The IDM is currently utilized by the AH-64D/E, OH-58D, CH-47F, and UH/HH-60M.

The ADEC is an Army aviation automated information system program providing specific capabilities needed at the aviation unit level to implement and support improvements within aviation operations, safety, and training to increase operational effectiveness and situational awareness at all command echelons. ADEC provides a common and interoperable capability required to implement the DoD mandated Military Flight Operations Quality Assurance processes. ADEC will standardize flight scheduling/management, risk management, mission approval, and flight data analysis and visualization. ADEC provides interfaces to CAFRS and ALE-P to reduce data entry and information technology footprint while enabling disconnected and split based operations.

The ACN is an Army aviation automated information system program required to streamline the completion of aviation maintenance activities and the documentation required to maintain airworthiness for all Army aircraft. ACN implements The Army Maintenance Management System - Aviation (TAMMS-A) digital logbook functionality and integrates with CAFRS and ALE-P to reduce manual entries and increase data accuracy. ACN reduces the information technology footprint within an aviation unit by integrating multiple software applications such as platform software applications, interactive electronic technical manuals, and condition based maintenance plus tools onto one hardware platform.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft		P-1 Line Item Number / Title: AA0712 / Network And Mission Plan

ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements: 0604201A
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The ALE-P is the single logistics information system for all of Army aviation and serves as an extension to Global Combat Support System-Army (GCSS-Army). ALE-P replaces the Unit Level Logistics System-Aviation (Enhanced) (ULLS-A[E]) and the Unmanned Aviation Systems-Initiative (UAS-I) systems. ALE-P provides necessary interfaces to GCSS-Army and other enterprise systems at Logistics Support Activity (LOGSA), Aviation and Missile Command (AMCOM), and Program Executive Office (PEO) Aviation. ALE-P interfaces with the ACN and ADEC at the unit level to maintain continuous airworthiness and aircraft historical records and provides the maintenance/readiness posture to the commander.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	34.409	61.121	65.428	-	65.428	59.379	79.806	83.247	85.237
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	22.544	40.044	42.867	-	42.867	38.904	52.286	54.541	55.844
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.373	4.215	4.512	-	4.512	4.095	5.504	5.741	5.878
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	59.326	105.380	112.807	-	112.807	102.378	137.596	143.529	146.959

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0712 / Network And Mission Plan
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements: 0604201A
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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)					
AA0712 / Network and Mission Plan (Rationalization, Standardization, Interoperability, Compatibility, Simplification)	P-3a		- / 248.959	- / 59.326	- / 105.380	- / 112.807	- / -	- / 112.807
Total Gross/Weapon System Cost			- / 248.959	- / 59.326	- / 105.380	- / 112.807	- / -	- / 112.807

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
AA0712 / Network and Mission Plan (Rationalization, Standardization, Interoperability, Compatibility, Simplification)	P-3a		- / 102.378	- / 137.596	- / 143.529	- / 146.959	- / -	- / 1,056.934
Total Gross/Weapon System Cost			- / 102.378	- / 137.596	- / 143.529	- / 146.959	- / -	- / 1,056.934

*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:
 FY 2016 Base procurement dollars in the amount of \$28.230 million supports the procurement of AMPS hardware, AMPS upgrades to system software to support aviation fleet modernization programs and support of CAFRS Individual Aircrew Training Folder software modification. AMPS hardware (B-Kits) is being replaced on a 5-year cycle to maintain pace with technology. FY 2016 is the fifth year of the current cycle.

FY 2016 Base procurement dollars in the amount of \$49.403 million supports the procurement of IDM-401 B Kits to mitigate parts obsolescence concerns and to provide a technology refresh to the IDM hardware. These B Kits support production line programs for the AH-64D/E, CH-47F, HH/UH-60M helicopters. The IDM enhances Army Aviation's interoperability, lethality, and operational tempo by providing a common solution for fast and accurate data-burst communications via the TI and FS internet networks. The IDM provides a capability to communicate across the digital battlefield while also providing the flexibility to adapt to technology change.

FY 2016 Base procurement dollars in the amount of \$27.389 million supports the procurement, fielding, and training of ADEC systems for Army aviation units. ADEC will provide Army commanders and users the necessary operation, safety, and training information to ensure efficient mission management, reduce operations and support costs, and improve operational readiness.

FY 2016 Base procurement dollars in the amount of \$7.785 million supports the procurement, fielding, and training of ACN systems for Army aviation units. ACN will replace paper based processes with the digital aircraft notebook providing necessary maintenance and airworthiness record keeping to ensure efficient and effective aircraft maintenance, integration with Interactive Electronic Technical Manuals and CBM tools, accurate record keeping and safe aircraft operations, reduce operations and support costs, and improve operational readiness.

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.

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Exhibit P-3a, Individual Modification: PB 2016 Army							Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10			P-1 Line Item Number / Title: AA0712 / Network And Mission Plan				Modification Number / Title: AA0712 / Network and Mission Plan				

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>)	248.959	59.326	105.380	112.807	-	112.807	102.378	137.596	143.529	146.959	-	1,056.934
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	248.959	59.326	105.380	112.807	-	112.807	102.378	137.596	143.529	146.959	-	1,056.934
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	248.959	59.326	105.380	112.807	-	112.807	102.378	137.596	143.529	146.959	-	1,056.934

(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 Thousands</i>)	-	-	-	196.186	-	196.186	-	-	-	-	-	1,056,934.000

Description:

The Network and Mission Plan budget line includes the Aviation Mission Planning System (AMPS), the Improved Data Modem (IDM), the Aviation Data Exploitation Capability (ADEC), the Aircraft Notebook (ACN), and the Aviation Logistics Enterprise-Platform (ALE-P).

The AMPS is a mission planning/battle synchronization tool that automates aviation mission planning tasks, including tactical command and control, mission planning, and flight planning. It interfaces with Army Mission Command Systems (AMCS) and associated networks which furnish the aviation commander with continuous situational awareness, allowing the commander to rapidly adjust mission plans. AMPS generates mission data in either hard copy or electronic formats. The electronic formats are loaded onto the aircraft platforms, initializing the communication, navigation, situational awareness, and weapons systems on the aircraft including the AH-64D/E, CH-47D/F, OH-58D, UH-60A/L/M/Q/V, HH-60L, LUH-72, EMARSS, and Unmanned Aircraft Systems (UAS). The AMPS program includes management of the Commander's Aviation Risk Tool and the Centralized Aviation Flight Records System (CAFRS). To accommodate rapid commercial technology changes, the overall system hardware is replaced after five years of use.

The IDM is the common solution for digitizing Army Aviation. It performs as an internet controller and gateway to Tactical Internet (TI) and Fire Support (FS) internet for Army aircraft. With interfaces supporting a transmit/receive terminal, the IDM provides radio connectivity to the ARC-201D/231, ARC-186, ARC-164, and the Blue Force Tracker transceiver, as well as providing 1553 and Ethernet portals for rapid data transfer. This hardware/software solution also provides a flexible, software-driven digital messaging system that is interoperable with existing Army and Joint forces battlefield operating systems. The IDM provides Situational Awareness and Joint Variable Message Format messages capability to the cockpit. The IDM is currently utilized by the AH-64D/E, OH-58D, CH-47F, and UH/HH-60M.

The ADEC is an Army aviation automated information system program providing specific capabilities needed at the aviation unit level to implement and support improvements within aviation operations, safety, and training to increase operational effectiveness and situational awareness at all command echelons. ADEC provides a common and interoperable capability required to implement the DoD mandated Military Flight Operations Quality Assurance processes. ADEC will standardize flight scheduling/management, risk management, mission approval, and flight data analysis and visualization. ADEC provides interfaces to CAFRS and ALE-P to reduce data entry and information technology footprint while enabling disconnected and split based operations.

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The ALE-P is the single logistics information system for all of Army aviation and serves as an extension to Global Combat Support System-Army (GCSS-Army). ALE-P replaces the Unit Level Logistics System-Aviation (Enhanced) (ULLS-A[E]) and the Unmanned Aviation Systems-Initiative (UAS-I) systems. ALE-P provides necessary interfaces to GCSS-Army and other enterprise systems at Logistics Support Activity

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0712 / Network And Mission Plan	Modification Number / Title: AA0712 / Network and Mission Plan

(LOGSA), Aviation and Missile Command (AMCOM), and Program Executive Office (PEO) Aviation. ALE-P interfaces with the ACN and ADEC at the unit level to maintain continuous airworthiness and aircraft historical records and provides the maintenance/readiness posture to the commander.

FY 2016 Base procurement dollars in the amount of \$28.230 million supports the procurement of AMPS hardware, AMPS upgrades to system software to support aviation fleet modernization programs and support of CAFRS Individual Aircrew Training Folder software modification. AMPS hardware (B-Kits) is being replaced on a 5-year cycle to maintain pace with technology. FY 2016 is the fifth year of the current cycle.

FY 2016 Base procurement dollars in the amount of \$49.403 million supports the procurement of IDM-401 B Kits to mitigate parts obsolescence concerns and to provide a technology refresh to the IDM hardware. These B Kits support production line programs for the AH-64D/E, CH-47F, HH/UH-60M helicopters. The IDM enhances Army Aviation's interoperability, lethality, and operational tempo by providing a common solution for fast and accurate data-burst communications via the TI and FS internet networks. The IDM provides a capability to communicate across the digital battlefield while also providing the flexibility to adapt to technology change.

FY 2016 Base procurement dollars in the amount of \$27.389 million supports the procurement, fielding, and training of ADEC systems for Army aviation units. ADEC will provide Army commanders and users the necessary operation, safety, and training information to ensure efficient mission management, reduce operations and support costs, and improve operational readiness.

FY 2016 Base procurement dollars in the amount of \$7.785 million supports the procurement, fielding, and training of ACN systems for Army aviation units. ACN will replace paper based processes with the digital aircraft notebook providing necessary maintenance and airworthiness record keeping to ensure efficient and effective aircraft maintenance, integration with Interactive Electronic Technical Manuals and CBM tools, accurate record keeping and safe aircraft operations, reduce operations and support costs, and improve operational readiness.

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.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	34.409	61.121	65.428	-	65.428	59.379	79.806	83.247	85.237
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	22.544	40.044	42.867	-	42.867	38.904	52.286	54.541	55.844
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.373	4.215	4.512	-	4.512	4.095	5.504	5.741	5.878
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	59.326	105.380	112.807	-	112.807	102.378	137.596	143.529	146.959

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: AA0712 / Network And Mission Plan					Modification Number / Title: AA0712 / Network and Mission Plan			
Models of Systems Affected: AH-64D/E, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, LUH, EMARSS					Modification Type: Rationalization, Standardization, Interoperability, Compatibility, Simplification					Related RDT&E PEs:			
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)					
Procurement													
Modification Item 1 of 5: Aviation Mission Planning System (AMPS)													
B Kits													
Recurring													
Kit Quantity- (Computer)	1,617 / 16.132	- / -	30 / 0.344	30 / 0.351	- / -	30 / 0.351	1,100 / 11.424	1,100 / 11.652	- / -	30 / 0.380	- / -	3,907 / 40.283	
ECPs	0 / 31.863	- / 16.185	- / 19.355	- / 15.055	- / -	- / 15.055	- / 16.980	- / 16.823	- / 15.821	- / 17.299	- / -	- / 149.381	
Systems Engineering	0 / 2.261	- / 0.847	- / 0.869	- / 0.866	- / -	- / 0.866	- / 0.904	- / 0.922	- / 0.941	- / 0.959	- / -	- / 8.569	
System Test and Eval	0 / 3.617	- / 1.921	- / 1.696	- / 1.555	- / -	- / 1.555	- / 2.062	- / 1.528	- / 1.906	- / 1.590	- / -	- / 15.875	
Fielding/Training	0 / 14.005	- / 7.542	- / 8.070	- / 8.117	- / -	- / 8.117	- / 8.179	- / 8.328	- / 7.487	- / 7.520	- / -	- / 69.248	
Other- PM Admin	0 / 3.219	- / 1.801	- / 1.910	- / 2.286	- / -	- / 2.286	- / 2.635	- / 2.033	- / 2.022	- / 1.716	- / -	- / 17.622	
Subtotal: Recurring	- / 71.097	- / 28.296	- / 32.244	- / 28.230	- / -	- / 28.230	- / 42.184	- / 41.286	- / 28.177	- / 29.464	- / -	- / 300.978	
Subtotal: Aviation Mission Planning System (AMPS)	1,617 / 71.097	- / 28.296	30 / 32.244	30 / 28.230	- / -	30 / 28.230	1,100 / 42.184	1,100 / 41.286	- / 28.177	30 / 29.464	- / -	3,907 / 300.978	
Modification Item 2 of 5: Improved Data Modem (IDM)													
B Kits													
Recurring													
Kit Quantity- IDM	412 / 9.776	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	412 / 9.776	
Kit Quantity- IDM OSA	334 / 17.850	- / -	198 / 11.509	138 / 8.026	- / -	138 / 8.026	- / -	145 / 8.455	301 / 17.479	168 / 9.749	- / -	1,284 / 73.068	
Aircraft Integration	0 / 96.744	- / 7.250	- / 35.377	- / 17.442	- / -	- / 17.442	- / 7.167	- / 19.055	- / 26.804	- / 34.856	- / -	- / 244.695	
ECP (SW)	0 / 26.671	- / 9.019	- / 16.796	- / 9.231	- / -	- / 9.231	- / 9.252	- / 9.283	- / 9.325	- / 9.381	- / -	- / 98.958	
Systems Engineering	0 / 3.736	- / 1.560	- / 1.743	- / 1.778	- / -	- / 1.778	- / 1.813	- / 1.849	- / 1.885	- / 1.922	- / -	- / 16.286	
System Test & Eval	0 / 14.346	- / 12.451	- / 2.804	- / 9.129	- / -	- / 9.129	- / 9.323	- / 9.480	- / 9.640	- / 9.242	- / -	- / 76.415	
Fielding/Training	0 / 0.800	- / 0.035	- / 0.309	- / 0.356	- / -	- / 0.356	- / 0.321	- / 0.360	- / 0.334	- / 0.374	- / -	- / 2.889	
Other- PM Admin	0 / 6.694	- / 0.715	- / 4.598	- / 3.441	- / -	- / 3.441	- / 3.441	- / 3.172	- / 3.277	- / 3.825	- / -	- / 29.163	
Subtotal: Recurring	- / 176.617	- / 31.030	- / 73.136	- / 49.403	- / -	- / 49.403	- / 31.317	- / 51.654	- / 68.744	- / 69.349	- / -	- / 551.250	
Subtotal: Improved Data Modem (IDM)	746 / 176.617	- / 31.030	198 / 73.136	138 / 49.403	- / -	138 / 49.403	- / 31.317	145 / 51.654	301 / 68.744	168 / 69.349	- / -	1,696 / 551.250	
Modification Item 3 of 5: Aviation Data Exploitation Capability (ADEC)													
B Kits													
Recurring													
Kit Quantity- Workstation	- / -	- / -	- / -	407 / 2.611	- / -	407 / 2.611	407 / 2.663	488 / 3.259	325 / 2.216	325 / 1.485	- / -	1,952 / 12.234	
Kit Quantity- Server	- / -	- / -	- / -	64 / 3.309	- / -	64 / 3.309	64 / 3.494	76 / 4.277	51 / 3.279	51 / 3.339	- / -	306 / 17.698	
ECP (SW)	- / -	- / -	- / -	- / 4.244	- / -	- / 4.244	- / 4.329	- / 4.257	- / 2.484	- / 2.369	- / -	- / 17.683	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0712 / Network And Mission Plan						Modification Number / Title: AA0712 / Network and Mission Plan		
Models of Systems Affected: AH-64D/E, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, LUH, EMARSS				Modification Type: Rationalization, Standardization, Interoperability, Compatibility, Simplification				Related RDT&E PEs:				
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)			
Data	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.041	- / 0.042	- / 0.187	- / 0.044	- / -	- / 0.314
Systems Engineering	- / -	- / -	- / -	- / 0.803	- / -	- / 0.803	- / 1.021	- / 1.042	- / 1.063	- / 1.084	- / -	- / 5.013
System Test & Eval	- / -	- / -	- / -	- / 0.416	- / -	- / 0.416	- / 0.424	- / 0.433	- / 1.154	- / 0.450	- / -	- / 2.877
Fielding/Training	- / -	- / -	- / -	- / 14.440	- / -	- / 14.440	- / 14.645	- / 17.176	- / 16.441	- / 6.484	- / -	- / 69.186
Other- PM Admin	- / -	- / -	- / -	- / 1.566	- / -	- / 1.566	- / 2.260	- / 1.987	- / 2.027	- / 2.067	- / -	- / 9.907
Subtotal: Recurring	- / -	- / -	- / -	- / 27.389	- / -	- / 27.389	- / 28.877	- / 32.473	- / 28.851	- / 17.322	- / -	- / 134.912
Subtotal: Aviation Data Exploitation Capability (ADEC)	- / -	- / -	- / -	471 / 27.389	- / -	471 / 27.389	471 / 28.877	564 / 32.473	376 / 28.851	376 / 17.322	- / -	2,258 / 134.912
Modification Item 4 of 5: Aircraft Notebook (ACN)												
B Kits												
Recurring												
Kit Quantity	- / -	- / -	- / -	- / 0.214	- / -	- / 0.214	- / -	- / 0.278	- / 0.227	- / 0.116	- / -	- / 0.835
ECP (SW)	- / -	- / -	- / -	- / 2.275	- / -	- / 2.275	- / -	- / 4.650	- / 4.742	- / 4.837	- / -	- / 16.504
Data	- / -	- / -	- / -	- / 0.020	- / -	- / 0.020	- / -	- / 0.194	- / 0.021	- / 0.022	- / -	- / 0.257
Systems Engineering	- / -	- / -	- / -	- / 0.088	- / -	- / 0.088	- / -	- / 0.496	- / 0.505	- / 0.515	- / -	- / 1.604
System Test	- / -	- / -	- / -	- / 0.416	- / -	- / 0.416	- / -	- / 0.808	- / 0.440	- / 0.448	- / -	- / 2.112
Fielding/Training	- / -	- / -	- / -	- / 4.726	- / -	- / 4.726	- / -	- / 3.325	- / 2.850	- / 4.868	- / -	- / 15.769
Other- PM Admin	- / -	- / -	- / -	- / 0.046	- / -	- / 0.046	- / -	- / 0.559	- / 0.592	- / 0.633	- / -	- / 1.830
Subtotal: Recurring	- / -	- / -	- / -	- / 7.785	- / -	- / 7.785	- / -	- / 10.310	- / 9.377	- / 11.439	- / -	- / 38.911
Subtotal: Aircraft Notebook (ACN)	- / -	- / -	- / -	- / 7.785	- / -	- / 7.785	- / -	- / 10.310	- / 9.377	- / 11.439	- / -	- / 38.911
Modification Item 5 of 5: Aviation Logistics Enterprise-Platform (ALE-P)												
B Kits												
Recurring												
Kit Quantity (Work station)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	96 / 0.279	430 / 1.824	979 / 3.713	- / -	1,505 / 5.816
Kit Quantity (Server)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.029	3 / 0.231	7 / 0.709	- / -	11 / 0.969
Kit Quantity (Storage)	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.321	- / -	- / 0.321
ECPs	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	- / 0.956	- / 2.342	- / -	- / 3.598
Systems Engineering	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.368	- / 0.375	- / 0.479	- / -	- / 1.222
Data	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.001	- / 0.023	- / -	- / 0.024
System Test & Eval	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.031	- / 0.431	- / -	- / 0.462
PM Admin	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.678	- / 0.692	- / 0.932	- / -	- / 2.302
Subtotal: Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.654	- / 4.110	- / 8.950	- / -	- / 14.714
Non-Recurring												

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: AA0712 / Network And Mission Plan					Modification Number / Title: AA0712 / Network and Mission Plan			
Models of Systems Affected: AH-64D/E, CH-47D/F, OH-58D, UH-60A/L/M/Q, HH-60L/M, LUH, EMARSS					Modification Type: Rationalization, Standardization, Interoperability, Compatibility, Simplification					Related RDT&E PEs:			
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>					
Fielding	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.219	- / 4.270	- / 10.435	- / -	- / 14.924	
<i>Subtotal: Non-Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.219	- / 4.270	- / 10.435	- / -	- / 14.924	
<i>Subtotal: Aviation Logistics Enterprise-Platform (ALE-P)</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	97 / 1.873	433 / 8.380	986 / 19.385	- / -	1,516 / 29.638	
<i>Subtotal: Procurement, All Modification Items</i>	2,363 / 247.714	- / 59.326	228 / 105.380	639 / 112.807	- / -	639 / 112.807	1,571 / 102.378	1,906 / 137.596	1,110 / 143.529	1,560 / 146.959	- / -	9,377 / 1,055.689	
Installation													
<i>Modification Item 1 of 5: Aviation Mission Planning System (AMPS)</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Modification Item 2 of 5: Improved Data Modem (IDM)</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Modification Item 3 of 5: Aviation Data Exploitation Capability (ADEC)</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Modification Item 4 of 5: Aircraft Notebook (ACN)</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Modification Item 5 of 5: Aviation Logistics Enterprise-Platform (ALE-P)</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Installation</i>	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	248.959	59.326	105.380	112.807	-	112.807	102.378	137.596	143.529	146.959	-	1,056.934	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0712 / Network And Mission Plan	Modification Number / Title: AA0712 / Network and Mission Plan

Modification Item 1 of 5: Aviation Mission Planning System (AMPS)

Manufacturer Information

Manufacturer Name: VT Miltope	Manufacturer Location: Hope Hull, AL
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 7

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Jun 2015	Jun 2016	Jun 2017	Jun 2018		Jun 2020
Delivery Dates		Dec 2015	Dec 2016	Dec 2017	Dec 2018		Dec 2020

Installation Information

Method of Implementation: Not applicable

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0712 / Network And Mission Plan	Modification Number / Title: AA0712 / Network and Mission Plan

Modification Item 2 of 5: Improved Data Modem (IDM)

Manufacturer Information

Manufacturer Name: Symetrics Industries, LLC	Manufacturer Location: Melbourne, FL
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: Not Applicable

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0712 / Network And Mission Plan	Modification Number / Title: AA0712 / Network and Mission Plan

Modification Item 4 of 5: Aircraft Notebook (ACN)

Manufacturer Information

Manufacturer Name: AMRDEC Software Engineering Directorate	Manufacturer Location: Redstone Arsenal, AL
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: Not Applicable

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0712 / Network And Mission Plan	Modification Number / Title: AA0712 / Network and Mission Plan

Modification Item 5 of 5: Aviation Logistics Enterprise-Platform (ALE-P)

Manufacturer Information

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

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

Installation Information

Method of Implementation: Not Applicable

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements: 0604201A
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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>	206.670	74.613	115.795	82.904	-	82.904	100.638	110.123	107.821	98.238	-	896.802
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	206.670	74.613	115.795	82.904	-	82.904	100.638	110.123	107.821	98.238	-	896.802
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	206.670	74.613	115.795	82.904	-	82.904	100.638	110.123	107.821	98.238	-	896.802

(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 Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The current Navigation Systems provide Army Aviation with extremely accurate and secure navigation and timing, assists in situational awareness, and aids in prevention of fratricide. The Global Positioning System (GPS) is installed in two configurations based upon mission profile, operational requirements, and avionics architecture of the aircraft. The Doppler GPS Navigation System (DGNS) is used for the Non-bussed Utility and Cargo helicopters. The Embedded GPS Inertial Navigation System (EGI) is integrated into the Modernized Cargo, Utility, Attack, and Special Operations fleets of helicopters. The Preplanned Product Improvement (P3I) DGNS is being installed on the Blackhawk (UH-60A/L and HH-60A/L) and Chinook (CH-47D) aircraft. The P3I EGI is being installed on UH/HH-60M, CH-47F, Apache (AH-64E), and Special Operations Aircraft (SOA). GPS based navigation systems are required as the primary means of navigation in civil airspace. The modification program to the DGNS Computer Display Unit (CDU) and software upgrade is being conducted to reduce pilot workload and fatigue through a user friendly interface as well as provide maps and charts to augment tactical and Instrument Flight Rules navigational operations.

The Aviation Tactical Communication Systems (ATCS) is an Army Aviation Program to procure A and B Kits to meet Army Aviation Communications requirements. The ATCS B-Kits include the ARC-201D and the ARC-231 radio sets along with associated power amplifiers and mounts. A-Kit hardware and software is planned to be procured through the prime contractor for each platform.

The AMF Radio Integration Program installs and qualifies Small Airborne Networking Radio/Small Airborne LINK-16 Terminal (SANR/SALT) hardware and software for production line and fielded Army Aviation Aircraft, SOA, and Unmanned Aircraft Systems (UAS) platforms to enable the operation of AMF certified radios with SINCGARS, Soldier Radio Waveform, mid-tier wideband networking waveforms, or other advanced networking waveforms. This program also provides for the procurement and installation of AMF Radio retrofit A-Kits for use on platforms that were fielded without these capabilities. AMF Radios and ancillaries are procured by PM Tactical Radios and are not part of the AMF Radio Integration effort.

The Blue Force Tracking - Aviation (BFT-A) Program integrates, qualifies, and manages the installation of BFT-2 system installation kits (A-Kit) for Army Rotary Wing Aircraft. The A-Kit utilizes the BFT-2 transceiver and KGV-72 boxes provided by PM Mission Command (MC).

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance
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ID Code (A=Service Ready, B=Not Service Ready) :		Program Elements for Code B Items:				Other Related Program Elements: 0604201A				
Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	74.613	115.795	45.597	-	45.597	55.351	60.568	59.302	54.030
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	33.162	-	33.162	40.255	44.049	43.129	39.295
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.145	-	4.145	5.032	5.506	5.390	4.913
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	74.613	115.795	82.904	-	82.904	100.638	110.123	107.821	98.238

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements: 0604201A
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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)					
AA0723 / Communications, Navigation, and Surveillance (New or Improved Operational Capability)	P-3a		- / 206.670	- / 74.613	- / 115.795	- / 82.904	- / -	- / 82.904
Total Gross/Weapon System Cost			- / 206.670	- / 74.613	- / 115.795	- / 82.904	- / -	- / 82.904

Exhibits Schedule			FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Title*	Exhibits	ID CD	Quantity / Total Cost (Each) / (\$ M)					
AA0723 / Communications, Navigation, and Surveillance (New or Improved Operational Capability)	P-3a		- / 100.638	- / 110.123	- / 107.821	- / 98.238	- / -	- / 896.802
Total Gross/Weapon System Cost			- / 100.638	- / 110.123	- / 107.821	- / 98.238	- / -	- / 896.802

*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:
 FY 2016 Base Procurement dollars in the amount of \$7.680 million supports procurement and installation of B-Kits as well as systems engineering and aircraft integration support for the DGNS CDU/Software Upgrade ECPs.

FY 2016 Base Procurement dollars in the amount of \$8.199 million supports procurement of EGI P3I B-Kits.

FY 2016 Base Procurement dollars in the amount of \$29.869 million supports procurement of B-Kits and installation of A-Kits for the AH-64D/E, CH-47F, UH/HH-60M, LUH, UAS and SOA. The ATCS suite of aviation radios comprises a standard configuration of non-developmental and commercial off-the-shelf equipment. The standard configuration consists of two ARC-201D radios, an Improved Frequency Modulation (IFM) Power Amplifier (two IFMs for CH-47F), and a suite of ARC-231 radios and associated ancillary items.

FY 2016 Base Procurement dollars in the amount of \$13.892 million provides for integration and qualification of certified AMF radios and procurement of AMF A-Kits for Shadow UAS installs and engineering services.

FY 2016 Base Procurement dollars in the amount of \$23.264 million provides for the procurement and installation BFT-2 A-Kits. This funding also provides for the continued management, engineering, and logistics activities associated with BFT-1 and BFT-2 Systems.

The FY16 funding request was reduced by \$7.834 million to account for the availability of prior year execution balances.

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.

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Exhibit P-3a, Individual Modification: PB 2016 Army							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance				Modification Number / Title: AA0723 / Communications, Navigation, and Surveillance				

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>)	206.670	74.613	115.795	82.904	-	82.904	100.638	110.123	107.821	98.238	-	896.802
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	206.670	74.613	115.795	82.904	-	82.904	100.638	110.123	107.821	98.238	-	896.802
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	206.670	74.613	115.795	82.904	-	82.904	100.638	110.123	107.821	98.238	-	896.802
<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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The current Navigation Systems provide Army Aviation with extremely accurate and secure navigation and timing, assists in situational awareness, and aids in prevention of fratricide. The Global Positioning System (GPS) is installed in two configurations based upon mission profile, operational requirements, and avionics architecture of the aircraft. The Doppler GPS Navigation System (DGNS) is used for the Non-bussed Utility and Cargo helicopters. The Embedded GPS Inertial Navigation System (EGI) is integrated into the Modernized Cargo, Utility, Attack, and Special Operations fleets of helicopters. The Preplanned Product Improvement (P3I) DGNS is being installed on the Blackhawk (UH-60A/L and HH-60A/L) and Chinook (CH-47D) aircraft. The P3I EGI is being installed on UH/HH-60M, CH-47F, Apache (AH-64E), and Special Operations Aircraft (SOA). GPS based navigation systems are required as the primary means of navigation in civil airspace. The modification program to the DGNS Computer Display Unit (CDU) and software upgrade is being conducted to reduce pilot workload and fatigue through a user friendly interface as well as provide maps and charts to augment tactical and Instrument Flight Rules navigational operations.

The Aviation Tactical Communication Systems (ATCS) is an Army Aviation Program to procure A and B Kits to meet Army Aviation Communications requirements. The ATCS B-Kits include the ARC-201D and the ARC-231 radio sets along with associated power amplifiers and mounts. A-Kit hardware and software is planned to be procured through the prime contractor for each platform.

The AMF Radio Integration Program installs and qualifies Small Airborne Networking Radio/Small Airborne LINK-16 Terminal (SANR/SALT) hardware and software for production line and fielded Army Aviation Aircraft, SOA, and Unmanned Aircraft Systems (UAS) platforms to enable the operation of AMF certified radios with SINCGARS, Soldier Radio Waveform, mid-tier wideband networking waveforms, or other advanced networking waveforms. This program also provides for the procurement and installation of AMF Radio retrofit A-Kits for use on platforms that were fielded without these capabilities. AMF Radios and ancillaries are procured by PM Tactical Radios and are not part of the AMF Radio Integration effort.

The Blue Force Tracking - Aviation (BFT-A) Program integrates, qualifies, and manages the installation of BFT-2 system installation kits (A-Kit) for Army Rotary Wing Aircraft. The A-Kit utilizes the BFT-2 transceiver and KGV-72 boxes provided by PM Mission Command (MC).

FY 2016 Base Procurement dollars in the amount of \$7.680 million supports procurement and installation of B-Kits as well as systems engineering and aircraft integration support for the DGNS CDU/Software Upgrade ECPs.

FY 2016 Base Procurement dollars in the amount of \$8.199 million supports procurement of EGI P3I B-Kits.

FY 2016 Base Procurement dollars in the amount of \$29.869 million supports procurement of B-Kits and installation of A-Kits for the AH-64D/E, CH-47F, UH/HH-60M, LUH, UAS and SOA. The ATCS suite of aviation radios comprises a standard configuration of non-developmental and commercial off-the-shelf equipment. The standard configuration consists of two ARC-201D radios, an Improved Frequency Modulation (IFM) Power Amplifier (two IFMs for CH-47F), and a suite of ARC-231 radios and associated ancillary items.

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance	Modification Number / Title: AA0723 / Communications, Navigation, and Surveillance

FY 2016 Base Procurement dollars in the amount of \$13.892 million provides for integration and qualification of certified AMF radios and procurement of AMF A-Kits for Shadow UAS installs and engineering services.

FY 2016 Base Procurement dollars in the amount of \$23.264 million provides for the procurement and installation BFT-2 A-Kits. This funding also provides for the continued management, engineering, and logistics activities associated with BFT-1 and BFT-2 Systems.

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.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	74.613	115.795	45.597	-	45.597	55.351	60.568	59.302	54.030
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	33.162	-	33.162	40.255	44.049	43.129	39.295
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	4.145	-	4.145	5.032	5.506	5.390	4.913
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	74.613	115.795	82.904	-	82.904	100.638	110.123	107.821	98.238

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance	Modification Number / Title: AA0723 / Communications, Navigation, and Surveillance

Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, AH-64D/E, LUH, UAS	Modification Type: New or Improved Operational Capability	Related RDT&E PEs:
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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)											

Procurement

Modification Item 1 of 6: DGNS (AN/ASN-128D) P3I												
A Kits												
Recurring												
Engineering Change Orders	0 / 2.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.800
Data	0 / 1.712	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.712
Training Equipment	0 / 6.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.800
Systems Engineering	0 / 8.931	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.931
Other - PM Admin	0 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.500
Subtotal: Recurring	- / 21.743	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.743
Subtotal: DGNS (AN/ASN-128D) P3I	0 / 21.743	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 21.743
Modification Item 2 of 6: DGNS (AN/ASN-128D) CDU/ Software Upgrade ECP												
A Kits												
Recurring												
Data	- / -	- / -	- / 0.850	- / 0.852	- / -	- / 0.852	- / 0.894	- / 0.921	- / 0.948	- / 0.976	- / -	- / 5.441
Systems Engineering	0 / 0.336	- / 0.480	- / 1.831	- / 1.691	- / -	- / 1.691	- / 1.710	- / 1.761	- / 1.528	- / 1.574	- / -	- / 10.911
Other - PM Admin	- / -	- / 0.112	- / 0.513	- / 0.640	- / -	- / 0.640	- / 0.660	- / 0.689	- / 0.640	- / 0.643	- / -	- / 3.897
Subtotal: Recurring	- / 0.336	- / 0.592	- / 3.194	- / 3.183	- / -	- / 3.183	- / 3.264	- / 3.371	- / 3.116	- / 3.193	- / -	- / 20.249
Non-Recurring												
Aircraft Integ-Nonrecurring	- / -	- / 1.077	- / 3.728	- / 2.904	- / -	- / 2.904	- / 2.839	- / 3.757	- / 3.443	- / 5.105	- / -	- / 22.853
Subtotal: Non-Recurring	- / -	- / 1.077	- / 3.728	- / 2.904	- / -	- / 2.904	- / 2.839	- / 3.757	- / 3.443	- / 5.105	- / -	- / 22.853
B Kits												
Recurring												
Kit Quantity - B-Kit	- / -	- / -	6 / 0.230	40 / 1.560	- / -	40 / 1.560	80 / 3.024	120 / 4.690	120 / 4.920	120 / 5.067	274 / -	760 / 19.491
Subtotal: Recurring	- / -	- / -	- / 0.230	- / 1.560	- / -	- / 1.560	- / 3.024	- / 4.690	- / 4.920	- / 5.067	- / -	- / 19.491
Subtotal: DGNS (AN/ASN-128D) CDU/Software Upgrade ECP	0 / 0.336	- / 1.669	6 / 7.152	40 / 7.647	- / -	40 / 7.647	80 / 9.127	120 / 11.818	120 / 11.479	120 / 13.365	274 / -	760 / 62.593
Modification Item 3 of 6: Embedded GPS Inertial Navigation System (EGI) P3I												
A Kits												
Recurring												

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Exhibit P-3a, Individual Modification: PB 2016 Army											Date: February 2015	
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance					Modification Number / Title: AA0723 / Communications, Navigation, and Surveillance			
Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, AH-64D/E, LUH, UAS				Modification Type: New or Improved Operational Capability				Related RDT&E PEs:				
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)			
Engineering Change Orders	0 / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.800
Data	0 / 0.266	- / 0.450	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.716
Training Equipment	0 / 0.200	- / 0.577	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.777
Systems Engineering	0 / 1.970	- / 3.250	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.220
Other - PM Admin	0 / 1.465	- / 0.480	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.945
Subtotal: Recurring	- / 4.701	- / 4.757	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.458
Non-Recurring												
Non-Recurring Engineering	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.000	- / 1.500	- / 1.886	- / -	- / -	- / 6.386
Subtotal: Non-Recurring	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.000	- / 1.500	- / 1.886	- / -	- / -	- / 6.386
B Kits												
Recurring												
Kit Quantity - B-Kit	20 / 2.000	- / -	- / -	80 / 8.199	- / -	80 / 8.199	- / -	- / -	- / -	- / -	- / -	100 / 10.199
Subtotal: Recurring	- / 2.000	- / -	- / -	- / 8.199	- / -	- / 8.199	- / -	- / -	- / -	- / -	- / -	- / 10.199
Subtotal: Embedded GPS Inertial Navigation System (EGI) P3I	20 / 6.701	- / 4.757	- / -	80 / 8.199	- / -	80 / 8.199	- / 3.000	- / 1.500	- / 1.886	- / -	- / -	100 / 26.043
Modification Item 4 of 6: Aviation Tactical Communication Systems (ATCS)												
A Kits												
Recurring												
Kit Quantity-A-Kit	164 / 9.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	106 / 0.371	86 / 0.307	3,071 / -	3,427 / 10.278
Systems Engineering	0 / 6.700	- / 1.402	- / 0.545	- / 2.785	- / -	- / 2.785	- / 2.657	- / 3.625	- / 2.798	- / 1.627	- / -	- / 22.139
System Test & Evaluation	0 / 4.000	- / 0.404	- / 0.725	- / 2.515	- / -	- / 2.515	- / 2.051	- / 2.719	- / 2.069	- / 1.359	- / -	- / 15.842
Fielding/Training	0 / 9.000	- / 1.942	- / 1.280	- / 2.112	- / -	- / 2.112	- / 2.366	- / 2.967	- / 1.050	- / 1.026	- / -	- / 21.743
Other - PM Admin SEPM	0 / 1.100	- / 5.206	- / 3.326	- / 2.493	- / -	- / 2.493	- / 2.671	- / 3.296	- / 3.867	- / 3.583	- / -	- / 31.542
Subtotal: Recurring	- / 36.400	- / 8.954	- / 5.876	- / 9.905	- / -	- / 9.905	- / 9.745	- / 12.607	- / 10.155	- / 7.902	- / -	- / 101.544
Non-Recurring												
ECPs - Nonrecurring	0 / 42.000	- / -	- / 49.900	- / -	- / -	- / -	- / 15.000	- / -	- / -	- / -	- / -	- / 106.900
Subtotal: Non-Recurring	- / 42.000	- / -	- / 49.900	- / -	- / -	- / -	- / 15.000	- / -	- / -	- / -	- / -	- / 106.900
B Kits												
Recurring												
Kit Quantity-B-Kit (ARC-231)	573 / 57.004	690 / 40.176	- / -	228 / 18.738	- / -	228 / 18.738	90 / 8.682	384 / 31.618	438 / 47.198	377 / 41.289	- / -	2,780 / 244.705
Kit Quantity-B-Kit (ARC201D)	350 / 10.900	357 / 10.674	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	707 / 21.574

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army											Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance							Modification Number / Title: AA0723 / Communications, Navigation, and Surveillance			
Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, AH-64D/E, LUH, UAS				Modification Type: New or Improved Operational Capability				Related RDT&E PEs:						
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)					
Kit Quantity-B-Kit (IFM)	350 / 6.700	130 / 3.222	122 / 3.082	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	602 / 13.004		
Subtotal: Recurring	- / 74.604	- / 54.072	- / 3.082	- / 18.738	- / -	- / 18.738	- / 8.682	- / 31.618	- / 47.198	- / 41.289	- / -	- / 279.283		
Subtotal: Aviation Tactical Communication Systems (ATCS)	1,437 / 153.004	1,177 / 63.026	122 / 58.858	228 / 28.643	- / -	228 / 28.643	90 / 33.427	384 / 44.225	544 / 57.353	463 / 49.191	3,071 / -	7,516 / 487.727		
Modification Item 5 of 6: Airborne Maritime Fixed (AMF) Radio Integration														
A Kits														
Recurring														
Kit Quantity - A-Kit	- / -	12 / 0.837	16 / 1.138	20 / 1.450	- / -	20 / 1.450	20 / 1.479	24 / 1.811	24 / 1.847	64 / 3.689	2,351 / -	2,531 / 12.251		
Support Equipment	- / -	- / 0.416	- / 1.424	- / 2.472	- / -	- / 2.472	- / 2.521	- / 2.572	- / 2.623	- / 2.676	- / -	- / 15.704		
System Test and Evaluation	0 / 4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.732	- / 2.650	- / -	- / -	- / 18.382		
System Eng/Prog Mgmt (SEPM)	- / -	- / -	- / 2.406	- / 2.454	- / -	- / 2.454	- / 2.503	- / 2.553	- / 2.604	- / 2.656	- / -	- / 15.176		
Subtotal: Recurring	- / 4.000	- / 1.253	- / 5.968	- / 6.376	- / -	- / 6.376	- / 6.503	- / 8.668	- / 9.724	- / 9.021	- / -	- / 51.513		
Non-Recurring														
NRE Aircraft Integration	0 / 16.104	- / 2.490	- / 13.502	- / 7.442	- / -	- / 7.442	- / 24.302	- / 21.958	- / 6.281	- / 3.001	- / -	- / 95.080		
Subtotal: Non-Recurring	- / 16.104	- / 2.490	- / 13.502	- / 7.442	- / -	- / 7.442	- / 24.302	- / 21.958	- / 6.281	- / 3.001	- / -	- / 95.080		
Subtotal: Airborne Maritime Fixed (AMF) Radio Integration	0 / 20.104	12 / 3.743	16 / 19.470	20 / 13.818	- / -	20 / 13.818	20 / 30.805	24 / 30.626	24 / 16.005	64 / 12.022	2,351 / -	2,531 / 146.593		
Modification Item 6 of 6: Blue Force Tracking-Aviation (BFT-A)														
A Kits														
Recurring														
BFT-A A-Kits	- / -	- / -	352 / 7.181	258 / 5.032	- / -	258 / 5.032	327 / 6.661	347 / 4.349	355 / 4.934	300 / 4.454	1,344 / -	3,283 / 32.611		
Test / Engineering	- / -	- / -	- / 6.655	- / 14.497	- / -	- / 14.497	- / 14.495	- / 4.308	- / 4.598	- / 4.704	- / -	- / 29.257		
Fielding / Training	- / -	- / -	- / 2.720	- / 3.132	- / -	- / 3.132	- / 2.206	- / 1.808	- / 1.773	- / 2.224	- / -	- / 13.863		
SEPM	- / -	- / -	- / 3.321	- / 1.832	- / -	- / 1.832	- / 1.833	- / 1.978	- / 2.177	- / 2.444	- / -	- / 13.585		
Subtotal: Recurring	- / -	- / -	- / 19.877	- / 14.493	- / -	- / 14.493	- / 15.195	- / 12.443	- / 13.482	- / 13.826	- / -	- / 89.316		
Non-Recurring														
NRE-Test / Engineering	- / -	- / -	- / 5.465	- / 3.526	- / -	- / 3.526	- / 0.315	- / 0.071	- / 0.658	- / 2.598	- / -	- / 12.633		
Subtotal: Non-Recurring	- / -	- / -	- / 5.465	- / 3.526	- / -	- / 3.526	- / 0.315	- / 0.071	- / 0.658	- / 2.598	- / -	- / 12.633		
Subtotal: Blue Force Tracking-Aviation (BFT-A)	- / -	- / -	352 / 25.342	258 / 18.019	- / -	258 / 18.019	327 / 15.510	347 / 12.514	355 / 14.140	300 / 16.424	1,344 / -	3,283 / 101.949		
Subtotal: Procurement, All Modification Items	1,457 / 201.888	1,189 / 73.195	496 / 110.822	626 / 76.326	- / -	626 / 76.326	517 / 91.869	875 / 100.683	1,043 / 100.863	947 / 91.002	7,040 / -	14,190 / 846.648		

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance	Modification Number / Title: AA0723 / Communications, Navigation, and Surveillance

Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, AH-64D/E, LUH, UAS	Modification Type: New or Improved Operational Capability	Related RDT&E PEs:
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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)											
Installation												
Modification Item 1 of 6: DGNS (AN/ASN-128D) P3I	46 / 0.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 0.295
Modification Item 2 of 6: DGNS (AN/ASN-128D) CDU/ Software Upgrade ECP	0 / 0.000	- / -	- / -	6 / 0.033	- / -	6 / 0.033	40 / 0.220	80 / 0.440	120 / 0.684	120 / 0.684	394 / -	760 / 2.061
Modification Item 3 of 6: Embedded GPS Inertial Navigation System (EGI) P3I	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Modification Item 4 of 6: Aviation Tactical Communication Systems (ATCS)	87 / 4.487	25 / 1.418	24 / 1.031	28 / 1.226	- / -	28 / 1.226	- / -	- / -	- / -	106 / 2.475	3,119 / -	3,389 / 10.637
Modification Item 5 of 6: Airborne Maritime Fixed (AMF) Radio Integration	0 / 0.000	- / -	12 / 0.055	16 / 0.074	- / -	16 / 0.074	20 / 0.095	20 / 0.097	24 / 0.118	24 / 0.121	2,415 / -	2,531 / 0.560
Modification Item 6 of 6: Blue Force Tracking-Aviation (BFT-A)	0 / 0.000	- / -	155 / 3.887	213 / 5.245	- / -	213 / 5.245	351 / 8.454	369 / 8.903	250 / 6.156	165 / 3.956	667 / -	2,170 / 36.601
<i>Subtotal: Installation</i>	<i>133 / 4.782</i>	<i>25 / 1.418</i>	<i>191 / 4.973</i>	<i>263 / 6.578</i>	<i>- / -</i>	<i>263 / 6.578</i>	<i>411 / 8.769</i>	<i>469 / 9.440</i>	<i>394 / 6.958</i>	<i>415 / 7.236</i>	<i>6,595 / -</i>	<i>8,896 / 50.154</i>
Total												
Total Cost (Procurement + Support + Installation)	206.670	74.613	115.795	82.904	-	82.904	100.638	110.123	107.821	98.238	-	896.802

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance	Modification Number / Title: AA0723 / Communications, Navigation, and Surveillance

Modification Item 1 of 6: DGNS (AN/ASN-128D) P3I

Manufacturer Information

Manufacturer Name: BAE International Incorporated	Manufacturer Location: Wayne, NJ
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

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)											
Prior Years	46 / 0.295	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	46 / 0.295
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	46 / 0.295	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	46 / 0.295

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46
Out	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance	Modification Number / Title: AA0723 / Communications, Navigation, and Surveillance

Modification Item 2 of 6: DGNS (AN/ASN-128D) CDU/Software Upgrade ECP

Manufacturer Information

Manufacturer Name: BAE International Incorporated	Manufacturer Location: Wayne, NJ
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Dec 2014	Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019
Delivery Dates		Nov 2015	Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	6 / 0.033	- / -	6 / 0.033	- / -	- / -	- / -	- / -	- / -	6 / 0.033
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	40 / 0.220	- / -	- / -	- / -	- / -	40 / 0.220
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	80 / 0.440	- / -	- / -	- / -	80 / 0.440
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 0.684	- / -	- / -	120 / 0.684
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / 0.684	- / -	120 / 0.684
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	120 / -	120 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	274 / -	274 / -
Total	0 / 0.000	- / -	- / -	6 / 0.033	- / -	6 / 0.033	40 / 0.220	80 / 0.440	120 / 0.684	120 / 0.684	394 / -	760 / 2.061

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	-	-	-	2	2	2	10	10	10	10	20	20	20	20	30	30	30	30	30	30	30	30	394	760
Out	-	-	-	-	-	-	-	-	-	-	-	2	2	2	10	10	10	10	20	20	20	30	30	30	30	30	30	30	30	414	760

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance	Modification Number / Title: AA0723 / Communications, Navigation, and Surveillance

Modification Item 3 of 6: Embedded GPS Inertial Navigation System (EGI) P3I

Manufacturer Information

Manufacturer Name: Honeywell, Incorporated	Manufacturer Location: Clearwater, FL
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Dec 2015				
Delivery Dates			Nov 2016				

Installation Information

Method of Implementation: Aircraft Platform Funded Installation

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance	Modification Number / Title: AA0723 / Communications, Navigation, and Surveillance

Modification Item 4 of 6: Aviation Tactical Communication Systems (ATCS)

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 10

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates						Dec 2018	Dec 2019
Delivery Dates						Sep 2019	Sep 2020

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

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)											
Prior Years	87 / 4.487	25 / 1.418	24 / 1.031	28 / 1.226	- / -	28 / 1.226	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	164 / 8.162
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	106 / 2.475	- / -	106 / 2.475
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	86 / -	86 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3,033 / -	3,033 / -
Total	87 / 4.487	25 / 1.418	24 / 1.031	28 / 1.226	- / -	28 / 1.226	- / -	- / -	- / -	106 / 2.475	3,119 / -	3,389 / 10.637

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	87	6	6	6	7	-	-	12	12	7	7	7	7	-	-	-	-	-	-	-	-	-	-	-	-	26	26	27	27	3,119	3,389
Out	69	18	6	6	6	7	-	-	12	12	7	7	7	7	-	-	-	-	-	-	-	-	-	-	-	26	26	27	3,146	3,389	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance	Modification Number / Title: AA0723 / Communications, Navigation, and Surveillance

Modification Item 5 of 6: Airborne Maritime Fixed (AMF) Radio Integration

Manufacturer Information

Manufacturer Name: TBD	Manufacturer Location: TBD
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	Apr 2018	Apr 2019	Apr 2020
Delivery Dates	Sep 2014	Sep 2015	Sep 2016	Sep 2017	Sep 2018	Sep 2019	Sep 2020

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	12 / 0.055	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 0.055
FY 2015	0 / 0.000	- / -	- / -	16 / 0.074	- / -	16 / 0.074	- / -	- / -	- / -	- / -	- / -	16 / 0.074
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	20 / 0.095	- / -	- / -	- / -	- / -	20 / 0.095
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	20 / 0.097	- / -	- / -	- / -	20 / 0.097
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.118	- / -	- / -	24 / 0.118
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 0.121	- / -	24 / 0.121
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	64 / -	64 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,351 / -	2,351 / -
Total	0 / 0.000	- / -	12 / 0.055	16 / 0.074	- / -	16 / 0.074	20 / 0.095	20 / 0.097	24 / 0.118	24 / 0.121	2,415 / -	2,531 / 0.560

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	-	-	-	-	-	3	3	3	3	4	4	4	4	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	2,415	2,531
Out	-	-	-	-	-	-	3	3	3	3	4	4	4	4	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	2,421	2,531

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0723 / Comms, Nav Surveillance	Modification Number / Title: AA0723 / Communications, Navigation, and Surveillance

Modification Item 6 of 6: Blue Force Tracking-Aviation (BFT-A)

Manufacturer Information

Manufacturer Name: Various	Manufacturer Location: Various
Administrative Leadtime (in Months): 8	Production Leadtime (in Months): 10

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Jun 2015	Jun 2016	Jun 2017	Jun 2018	Jun 2019	Jun 2020
Delivery Dates		Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	155 / 3.887	175 / 4.309	- / -	175 / 4.309	- / -	- / -	- / -	- / -	- / -	330 / 8.196
FY 2015	0 / 0.000	- / -	- / -	38 / 0.936	- / -	38 / 0.936	200 / 4.817	- / -	- / -	- / -	- / -	238 / 5.753
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	151 / 3.637	100 / 2.413	- / -	- / -	- / -	251 / 6.050
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	269 / 6.490	40 / 0.985	- / -	- / -	309 / 7.475
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	210 / 5.171	- / -	- / -	210 / 5.171
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	165 / 3.956	- / -	165 / 3.956
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	164 / -	164 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	503 / -	503 / -
Total	0 / 0.000	- / -	155 / 3.887	213 / 5.245	- / -	213 / 5.245	351 / 8.454	369 / 8.903	250 / 6.156	165 / 3.956	667 / -	2,170 / 36.601

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	-	-	-	-	-	-	-	34	34	41	46	52	53	54	54	87	87	88	89	92	92	92	93	84	62	62	42	42	41	749	2,170
Out	-	-	-	-	-	-	-	-	34	34	41	46	52	53	54	54	87	87	88	89	92	92	92	93	84	62	62	42	42	790	2,170

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0711 / GATM Rollup
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ID Code (A=Service Ready, B=Not Service Ready) :		Program Elements for Code B Items:					Other Related Program Elements:					
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	692.945	50.382	54.277	33.890	-	33.890	56.500	61.166	60.528	60.865	-	1,070.553
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	692.945	50.382	54.277	33.890	-	33.890	56.500	61.166	60.528	60.865	-	1,070.553
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	692.945	50.382	54.277	33.890	-	33.890	56.500	61.166	60.528	60.865	-	1,070.553
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	160.616	-	160.616	-	-	-	-	-	1,070,553.000

Description:

This budget line supports procurement of Global Air Traffic Management equipment for both Fixed Wing (FW) and Rotary Wing (RW) aircraft.

Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation and Surveillance (CNS) and air traffic management programs. GATM is a Department of Defense term that describes the equipment, training, and procedures mandated by Civilian Air Traffic Control (ATC) authorities in order to operate within 21st century airspace. Current ground based navigation aids will be phased out of service as the world transitions to digital, data (non-voice), and space based navigation systems. The modernization is designed to meet the current and future service demands posed by aviation growth. The advanced architecture will provide improved safety, accessibility, flexibility, predictability, reliability, capacity, efficiency, and security. Military aircraft will face significant flight restrictions if not GATM equipped.

GATM fixed wing requirements cannot be met with a single piece of avionics equipment. Meeting worldwide GATM fixed wing requirements will entail complete modifications that may include portions of military modifications and the upgrading of some existing avionics and displays and the procurement of new systems for the fixed wing fleet to include Engineer, Furnish and Install as a complete contractual effort. It also leverages Federal Aviation Administration Supplemental Type Certificates (STC) that are already in existence and applies STCs to aircraft modifications. These modifications ensure continued worldwide deployment capability and safe operations.

Meeting worldwide GATM requirements will entail the upgrading of some existing avionics and the procurement of new systems for rotary wing and Unmanned Aircraft System (UAS) fleets. Included in the GATM Program is the European mandated Mode S requirement which is being met with the fielding of the APX-118, an upgrade to the Identification Friend or Foe (IFF) to add Mode 5 capability which will be achieved through the fielding of the APX-123, worldwide mandated Automatic Dependant Surveillance-Broadcast (ADS-B) Out, which will be a Preplanned Product Improvement (P3I) to the APX-123, and upgrades to meet requirements for 8.33 kHz channel spacing being met with the ARC-231. ADS-B Out is an upgrade of the Mode S self-reporting format. The modification of the Embedded GPS Inertial (EGI) Navigation System is being conducted to provide a GPS Primary Means Instrument Flight Rules navigation (en-route through non-precision approach) in civil and military controlled airspace, and navigational requirements for ADS-B Out.

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: AA0711 / GATM Rollup
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ID Code (A=Service Ready, B=Not Service Ready) :		Program Elements for Code B Items:				Other Related Program Elements:				
Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	43.785	54.277	18.640	-	18.640	31.075	33.641	33.290	33.475
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.614	-	13.556	-	13.556	22.600	24.466	24.211	24.346
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.983	-	1.694	-	1.694	2.825	3.059	3.027	3.044
Total:	Quantity	-	-	-	-	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	50.382	54.277	33.890	-	33.890	56.500	61.166	60.528	60.865

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

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft

P-1 Line Item Number / Title:
AA0711 / GATM Rollup

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

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)
AA0703 / GATM - Fixed Wing Aircraft (Rationalization, Standardization, Interoperability, Compatibility, Simplification)	P-3a		- / 182.724	- / 12.072	- / 12.456	- / -	- / -	- / -
AA0704 / GATM Rotary Wing Aircraft (New or Improved Operational Capability)	P-3a		- / 510.221	- / 38.310	- / 41.821	- / 33.890	- / -	- / 33.890
Total Gross/Weapon System Cost			- / 692.945	- / 50.382	- / 54.277	- / 33.890	- / -	- / 33.890

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)
AA0703 / GATM - Fixed Wing Aircraft (Rationalization, Standardization, Interoperability, Compatibility, Simplification)	P-3a		- / -	- / -	- / -	- / -	- / -	- / 207.252
AA0704 / GATM Rotary Wing Aircraft (New or Improved Operational Capability)	P-3a		- / 56.500	- / 61.166	- / 60.528	- / 60.865	- / -	- / 863.301
Total Gross/Weapon System Cost			- / 56.500	- / 61.166	- / 60.528	- / 60.865	- / -	- / 1,070.553

*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:
 FY 2016 Base Procurement dollars in the amount of \$3.620 million supports procurement of APX-123 B-Kits and procurement and installation of APX-123 A-Kits for the UH-60A/L/M, CH-47F, MH-47G, MH-60M, A/MH-6, AH-64D/E and UAS to provide these aircraft with enhanced IFF Mode 5 capabilities.

FY 2016 Base Procurement dollars in the amount of \$2.000 million supports procurement and installation of Mode 5 upgrade kits which convert previously fielded APX-118 transponders to APX-123 transponders.

FY 2016 Base Procurement dollars in the amount of \$12.612 million supports procurement of A & B Kits and the associated Non-Recurring Engineering (NRE) integration which will facilitate an enhanced GPS in support of ADS-B for mandated ATC services for the applicable aviation platforms.

FY 2016 Base Procurement dollars in the amount of \$15.658 million supports procurement of EGI Navigational System B-Kits and associated aircraft integration costs to meet GATM requirements.

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Exhibit P-3a, Individual Modification: PB 2016 Army							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0711 / GATM Rollup				Modification Number / Title: AA0703 / GATM - Fixed Wing Aircraft				

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>)	182.724	12.072	12.456	-	-	-	-	-	-	-	-	207.252
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	182.724	12.072	12.456	-	-	-	-	-	-	-	-	207.252
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	182.724	12.072	12.456	-	-	-	-	-	-	-	-	207.252

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation and Surveillance (CNS) and air traffic management programs. Current ground based navigation aids will be phased out of service as the world transitions to digital, data (non-voice), and space based navigation systems. Military aircraft will face some level (altitude and location dependent) of flight restrictions if not GATM equipped. GATM requirements cannot be met with a single piece of avionics equipment. Meeting worldwide GATM requirements will entail complete modifications that may include portions of military modifications and the upgrading of some existing avionics and displays and the procurement of new system for the fixed wing fleet to include Engineer, Furnish and Install (EF&I) as a complete contractual effort. It also leverages Federal Aviation Administration (FAA) supplemental type certificates (STC) that are already in existence and applies STCs to aircraft modifications. These modifications ensure continued worldwide deployment capability and safe operations.

FY16 Future FW GATM modifications will be funded in the FW Utility Cargo Airplane Mods line (AA0270).

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.475	12.456	-	-	-	-	-	-	-
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.614	-	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	1.983	-	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	12.072	12.456	-	-	-	-	-	-	-

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0711 / GATM Rollup	Modification Number / Title: AA0703 / GATM - Fixed Wing Aircraft
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Models of Systems Affected: All series of Army fixed wing aircraft	Modification Type: Rationalization, Standardization, Interoperability, Compatibility, Simplification	Related RDT&E PEs:
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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)											

Procurement

Modification Item 1 of 1: Global Air Traffic Management - FW												
A Kits												
Recurring												
Installation Kits	224 / 127.606	10 / 8.350	2 / 8.585	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	236 / 144.541
Data	0 / 0.400	- / 0.100	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.600
Subtotal: Recurring	- / 128.006	- / 8.450	- / 8.685	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 145.141
Subtotal: Global Air Traffic Management - FW	224 / 128.006	10 / 8.450	2 / 8.685	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	236 / 145.141
Subtotal: Procurement, All Modification Items	224 / 128.006	10 / 8.450	2 / 8.685	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	236 / 145.141

Installation

Modification Item 1 of 1: Global Air Traffic Management - FW												
Subtotal: Installation	224 / 54.718	10 / 3.622	2 / 3.771	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	236 / 62.111

Total

Total Cost (Procurement + Support + Installation)	182.724	12.072	12.456	-	207.252							
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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0711 / GATM Rollup	Modification Number / Title: AA0703 / GATM - Fixed Wing Aircraft

Modification Item 1 of 1: Global Air Traffic Management - FW

Manufacturer Information

Manufacturer Name: Multiple Commercial Lenders				Manufacturer Location: TBD			
Administrative Leadtime (in Months): 2				Production Leadtime (in Months): 6			
Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014					
Delivery Dates	May 2014	May 2015					

Installation Information

Method of Implementation: Contractor

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)											
Prior Years	185 / 48.292	- / 0.000	- / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.000	185 / 48.292
FY 2014	34 / 4.319	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 4.319
FY 2015	5 / 2.107	10 / 3.622	2 / 3.771	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 9.500
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	224 / 54.718	10 / 3.622	2 / 3.771	- / -	236 / 62.111							

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	224	3	3	3	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	236
Out	223	1	3	3	3	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	236

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Exhibit P-3a, Individual Modification: PB 2016 Army							Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10				P-1 Line Item Number / Title: AA0711 / GATM Rollup				Modification Number / Title: AA0704 / GATM Rotary Wing Aircraft				

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>)	510.221	38.310	41.821	33.890	-	33.890	56.500	61.166	60.528	60.865	-	863.301
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	510.221	38.310	41.821	33.890	-	33.890	56.500	61.166	60.528	60.865	-	863.301
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	510.221	38.310	41.821	33.890	-	33.890	56.500	61.166	60.528	60.865	-	863.301

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation, Surveillance and Air Traffic Management programs. GATM is a Department of Defense (DoD) term that describes the equipment, training, and procedures mandated by Civilian Air Traffic Control (ATC) authorities in order to operate within 21st century airspace. Most ground based navigation aids will be phased out of service as the world transitions to a modernized air traffic management system. The modernization is designed to meet the current and future service demands posed by aviation growth. The advanced architecture will provide improved safety, accessibility, flexibility, predictability, reliability, capacity, efficiency, and security. Military aircraft will face significant flight restrictions if not GATM equipped. GATM requirements are driven by civil aviation authorities and are not under DoD control. Meeting worldwide GATM requirements will entail the upgrading of some existing avionics and the procurement of new systems for rotary wing and Unmanned Aircraft System (UAS) fleets. Included in the GATM Program is the European mandated Mode S requirement which is being met with the fielding of the APX-118, an upgrade to the Identification Friend or Foe (IFF) to add Mode 5 capability which will be achieved through the fielding of the APX-123, worldwide mandated Automatic Dependent Surveillance-Broadcast (ADS-B) Out, which will be a Preplanned Product Improvement (P3I) to the APX-123, and upgrades to meet requirements for 8.33 kHz channel spacing being met with the ARC-231. ADS-B Out is an upgrade of the Mode S self-reporting format. The modification of the Embedded GPS Inertial (EGI) Navigation System is being conducted to provide a GPS Primary Means Instrument Flight Rules navigation (en-route through non-precision approach) in civil and military controlled airspace, and navigational requirements for ADS-B Out.

GATM provides Army aircraft improved capabilities to allow them to continue to operate in civil controlled airspace without threat of exclusion. IFF Mode 5 provides enhanced security and greatly improved performance over Mode 4. It also improves compatibility with civil ATC by providing less interference. The Full Operational Capability for Mode 5 is 2020. Europe currently mandates Mode S and plans expansion of 8.33 kHz Very High Frequency - Amplitude Modulation (VHF-AM) in controlled airspace to ground level in high volume traffic areas. The Federal Aviation Administration (FAA) has mandated the use of ADS-B Out by 2020. Army aircraft will not be allowed to transit through or operate in European airspace affected by these mandates unless the necessary Mode S upgrades are made. The Mode S transponder impacts European based aircraft as well as those deploying to Europe. ADS-B Out will also impact access in worldwide airspace. The recurring procurement of Mode S kits started in FY02 and procurement and installations continue. Benefits of GATM include direct routing through civil airspace resulting in significant savings in both time and money. It allows unrestricted operations in worldwide civil controlled airspace and improves safety and operational efficiency while meeting the new worldwide frequency spectrum requirements.

FY 2016 Base Procurement dollars in the amount of \$3.620 million supports procurement of APX-123 B-Kits and procurement and installation of APX-123 A-Kits for the UH-60A/L/M, CH-47F, MH-47G, MH-60M, A/MH-6, AH-64D/E and UAS to provide these aircraft with enhanced IFF Mode 5 capabilities.

FY 2016 Base Procurement dollars in the amount of \$2.000 million supports procurement and installation of Mode 5 upgrade kits which convert previously fielded APX-118 transponders to APX-123 transponders.

FY 2016 Base Procurement dollars in the amount of \$12.612 million supports procurement of A & B Kits and the associated Non-Recurring Engineering (NRE) integration which will facilitate an enhanced GPS in support of ADS-B for mandated ATC services for the applicable aviation platforms.

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0711 / GATM Rollup	Modification Number / Title: AA0704 / GATM Rotary Wing Aircraft
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FY 2016 Base Procurement dollars in the amount of \$15.658 million supports procurement of EGI Navigational System B-Kits and associated aircraft integration costs to meet GATM requirements.

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.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	38.310	41.821	18.640	-	18.640	31.075	33.641	33.290	33.475
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	13.556	-	13.556	22.600	24.466	24.211	24.346
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	1.694	-	1.694	2.825	3.059	3.027	3.044
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	38.310	41.821	33.890	-	33.890	56.500	61.166	60.528	60.865

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: AA0711 / GATM Rollup					Modification Number / Title: AA0704 / GATM Rotary Wing Aircraft			
Models of Systems Affected: UH&HH60A/L, CH47D/F, UH60M, MH47G, MH60M, A/MH6, AH64A/D/E, UAS					Modification Type: New or Improved Operational Capability					Related RDT&E PEs:			
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>					
Procurement													
Modification Item 1 of 7: Global Air Traffic Mgmt RW APX-118													
A Kits													
Recurring													
Kit Qty-APX-118 A-Kits	2,048 / 9.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,048 / 9.200	
Aircraft Integration	0 / 5.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.900	
Data	0 / 4.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.800	
Training Equipment	0 / 3.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.400	
Fielding	0 / 5.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.300	
Systems Engr/Prog Mgt (SEPM)	0 / 13.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.500	
System Test & Eval	0 / 3.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.500	
Other-PM Admin	0 / 14.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.500	
Other	0 / 5.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.600	
Subtotal: Recurring	- / 65.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 65.700	
Non-Recurring													
Engineering Change Orders	0 / 7.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.200	
Subtotal: Non-Recurring	- / 7.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 7.200	
B Kits													
Recurring													
Kit Qty-APX-118 B-Kits	2,635 / 113.812	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,635 / 113.812	
Subtotal: Recurring	- / 113.812	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 113.812	
Non-Recurring													
B-Kit Nonrecurring	0 / 6.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.600	
Subtotal: Non-Recurring	- / 6.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.600	
Subtotal: Global Air Traffic Mgmt RW APX-118	4,683 / 193.312	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,683 / 193.312	
Modification Item 2 of 7: Global Air Traffic Mgmt RW APX-123													
A Kits													
Recurring													
Kit Quantity - APX-123 A-Kits	257 / 1.200	168 / 0.431	168 / 0.600	82 / 0.100	- / -	82 / 0.100	82 / 0.100	- / -	- / -	- / -	- / -	757 / 2.431	
Aircraft Integ/RCUs/KIV77	0 / 16.933	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.933	
ECP	0 / 5.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.100	

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: AA0711 / GATM Rollup					Modification Number / Title: AA0704 / GATM Rotary Wing Aircraft				
Models of Systems Affected: UH&HH60A/L, CH47D/F, UH60M, MH47G, MH60M, A/MH6, AH64A/D/E, UAS					Modification Type: New or Improved Operational Capability					Related RDT&E PEs:				
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)						
Systems Eng/Prog Mgt (SEPM)	0 / 12.451	- / 0.440	- / 0.550	- / 0.150	- / -	- / 0.150	- / 0.100	- / 0.035	- / 0.055	- / -	- / -	- / 13.781		
Other PM Admin	0 / 4.200	- / 0.150	- / 0.256	- / 0.100	- / -	- / 0.100	- / 0.045	- / 0.050	- / 0.075	- / -	- / -	- / 4.876		
Subtotal: Recurring	- / 39.884	- / 1.021	- / 1.406	- / 0.350	- / -	- / 0.350	- / 0.245	- / 0.085	- / 0.130	- / -	- / -	- / 43.121		
B Kits														
Recurring														
Kit Quantity - APX-123 B-Kits	1,165 / 29.400	100 / 2.500	100 / 2.569	168 / 3.045	- / -	168 / 3.045	168 / 1.655	62 / 0.125	62 / 0.126	- / -	- / -	1,825 / 39.420		
Subtotal: Recurring	- / 29.400	- / 2.500	- / 2.569	- / 3.045	- / -	- / 3.045	- / 1.655	- / 0.125	- / 0.126	- / -	- / -	- / 39.420		
Non-Recurring														
B-Kits, Nonrecurring	0 / 23.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.306	- / -	- / 23.706		
Subtotal: Non-Recurring	- / 23.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.306	- / -	- / 23.706		
Subtotal: Global Air Traffic Mgmt RW APX-123	1,422 / 92.684	268 / 3.521	268 / 3.975	250 / 3.395	- / -	250 / 3.395	250 / 1.900	62 / 0.210	62 / 0.256	- / 0.306	- / -	2,582 / 106.247		
Modification Item 3 of 7: Global Air Traffic Mgmt RW APX-118 Upgrade Kits														
A Kits														
Recurring														
Kit Qty- Upgrade A-Kits	772 / 3.976	- / -	200 / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	972 / 4.076		
Engineering Change Orders	0 / 1.123	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.123		
System Eng/Prog Mgt (SEPM)	0 / 9.000	- / 0.100	- / 0.105	- / 0.075	- / -	- / 0.075	- / 0.050	- / -	- / -	- / -	- / -	- / 9.330		
Subtotal: Recurring	- / 14.099	- / 0.100	- / 0.205	- / 0.075	- / -	- / 0.075	- / 0.050	- / -	- / -	- / -	- / -	- / 14.529		
B Kits														
Recurring														
Kit Qty- Upgrade B-Kits	1,920 / 21.402	- / -	389 / 5.264	388 / 1.900	- / -	388 / 1.900	- / -	- / -	- / -	- / -	- / -	2,697 / 28.566		
Subtotal: Recurring	- / 21.402	- / -	- / 5.264	- / 1.900	- / -	- / 1.900	- / -	- / -	- / -	- / -	- / -	- / 28.566		
Non-Recurring														
B-Kits Nonrecurring	0 / 1.200	- / -	- / 2.320	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.520		
Subtotal: Non-Recurring	- / 1.200	- / -	- / 2.320	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.520		
Subtotal: Global Air Traffic Mgmt RW APX-118 Upgrade Kits	2,692 / 36.701	- / 0.100	589 / 7.789	388 / 1.975	- / -	388 / 1.975	- / 0.050	- / -	- / -	- / -	- / -	3,669 / 46.615		
Modification Item 4 of 7: Global Air Traffic Mgmt RW ADS-B														
A Kits														
Recurring														
Kit Qty: ADS-B A-Kits	- / -	- / -	- / -	154 / 0.616	- / -	154 / 0.616	845 / 4.637	899 / 4.697	1,000 / 5.115	845 / 4.022	1,260 / -	5,003 / 19.087		

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Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0711 / GATM Rollup	Modification Number / Title: AA0704 / GATM Rotary Wing Aircraft

Models of Systems Affected: UH&HH60A/L, CH47D/F, UH60M, MH47G, MH60M, A/MH6, AH64A/D/E, UAS	Modification Type: New or Improved Operational Capability	Related RDT&E PEs:
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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)											
Engineering Change Orders	0 / 1.150	- / -	- / 1.454	- / 1.026	- / -	- / 1.026	- / 2.150	- / 2.497	- / 2.497	- / 1.264	- / -	- / 12.038
Data	0 / 0.945	- / -	- / 1.500	- / 0.250	- / -	- / 0.250	- / 1.527	- / 1.627	- / 1.427	- / 1.230	- / -	- / 18.506
Training Equipment	0 / 2.140	- / -	- / 1.325	- / 0.252	- / -	- / 0.252	- / 0.420	- / 0.422	- / 0.420	- / 0.625	- / -	- / 15.604
Fielding	0 / 0.425	- / -	- / 0.200	- / 0.185	- / -	- / 0.185	- / 0.220	- / 0.223	- / 0.222	- / 0.200	- / -	- / 11.675
System Eng/Prog Mgt (SEPM)	0 / 2.300	- / -	- / 2.200	- / 2.264	- / -	- / 2.264	- / 2.203	- / 3.101	- / 2.053	- / 1.200	- / -	- / 15.321
System Test & Eval (ST&E)	0 / 0.400	- / -	- / 0.180	- / 0.182	- / -	- / 0.182	- / 1.250	- / 1.265	- / 1.225	- / 0.175	- / -	- / 14.677
Other- PM Admin	0 / 2.800	- / -	- / 1.100	- / 1.175	- / -	- / 1.175	- / 3.037	- / 3.097	- / 3.237	- / 1.100	- / -	- / 15.546
Subtotal: Recurring	- / 10.160	- / -	- / 7.959	- / 5.950	- / -	- / 5.950	- / 15.444	- / 16.929	- / 16.196	- / 9.816	- / -	- / 82.454
Non-Recurring												
Non-Recurring Engineering	0 / 11.877	- / 1.000	- / 10.250	- / 5.515	- / -	- / 5.515	- / 6.421	- / 6.742	- / 5.750	- / 1.450	- / -	- / 49.005
Subtotal: Non-Recurring	- / 11.877	- / 1.000	- / 10.250	- / 5.515	- / -	- / 5.515	- / 6.421	- / 6.742	- / 5.750	- / 1.450	- / -	- / 49.005
B Kits												
Recurring												
Kit Qty: ADS-B B-Kits	- / -	- / -	- / -	154 / 1.147	- / -	154 / 1.147	845 / 7.818	899 / 8.451	1,000 / 9.019	845 / 6.538	1,260 / -	5,003 / 32.973
Subtotal: Recurring	- / -	- / -	- / -	- / 1.147	- / -	- / 1.147	- / 7.818	- / 8.451	- / 9.019	- / 6.538	- / -	- / 32.973
Subtotal: Global Air Traffic Mgmt RW ADS-B	0 / 22.037	- / 1.000	- / 18.209	308 / 12.612	- / -	308 / 12.612	1,690 / 29.683	1,798 / 32.122	2,000 / 30.965	1,690 / 17.804	2,520 / -	10,006 / 164.432
Modification Item 5 of 7: Embedded GPS Inertial (EGI) Navigation System ECP												
A Kits												
Recurring												
Aircraft Integration	- / -	- / -	- / -	- / 8.013	- / -	- / 8.013	- / 9.044	- / 8.174	- / 0.917	- / 0.913	- / -	- / 27.061
Data	- / -	- / 0.500	- / 0.500	- / 0.410	- / -	- / 0.410	- / 0.410	- / 0.450	- / 0.250	- / 0.250	- / -	- / 12.770
Systems Engineering	- / -	- / 1.000	- / 1.000	- / 0.500	- / -	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / 0.500	- / -	- / 14.500
Other	- / -	- / 0.500	- / 0.500	- / 0.250	- / -	- / 0.250	- / 0.250	- / 0.250	- / 0.250	- / 0.250	- / -	- / 12.250
Subtotal: Recurring	- / -	- / 2.000	- / 2.000	- / 9.173	- / -	- / 9.173	- / 10.204	- / 9.374	- / 1.917	- / 1.913	- / -	- / 36.581
B Kits												
Recurring												
Kit Quantity -- B-Kit	- / -	175 / 22.806	- / -	84 / 6.485	- / -	84 / 6.485	184 / 12.845	254 / 14.420	330 / 22.020	521 / 35.130	1,790 / -	3,338 / 113.706
Subtotal: Recurring	- / -	- / 22.806	- / -	- / 6.485	- / -	- / 6.485	- / 12.845	- / 14.420	- / 22.020	- / 35.130	- / -	- / 113.706
Non-Recurring												
Non-Recurring Engineering	- / -	- / 7.017	- / 9.548	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 16.565
Subtotal: Non-Recurring	- / -	- / 7.017	- / 9.548	- / -	- / 16.565							

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Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: AA0711 / GATM Rollup					Modification Number / Title: AA0704 / GATM Rotary Wing Aircraft				
Models of Systems Affected: UH&HH60A/L, CH47D/F, UH60M, MH47G, MH60M, A/MH6, AH64A/D/E, UAS					Modification Type: New or Improved Operational Capability					Related RDT&E PEs:				
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		
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>						
<i>Subtotal: Embedded GPS Inertial (EGI) Navigation System ECP</i>	- / -	175 / 31.823	- / 11.548	84 / 15.658	- / -	84 / 15.658	184 / 23.049	254 / 23.794	330 / 23.937	521 / 37.043	1,790 / -	3,338 / 166.852		
Modification Item 6 of 7: Global Air Traffic Mgmt RW ARC-231														
A Kits														
Recurring														
Kit Qty- ARC-231 A-Kit	372 / 22.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	372 / 22.100		
Testing	0 / 1.651	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.651		
PM Admin / SEPM	0 / 4.950	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.950		
Subtotal: Recurring	- / 28.701	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.701		
Non-Recurring														
NRE (A-Kit)	0 / 2.495	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.495		
Subtotal: Non-Recurring	- / 2.495	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.495		
B Kits														
Recurring														
Kit Qty- ARC-231 B-Kit	372 / 60.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	372 / 60.300		
Subtotal: Recurring	- / 60.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 60.300		
Subtotal: Global Air Traffic Mgmt RW ARC-231	744 / 91.496	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	744 / 91.496		
Modification Item 7 of 7: Global Air Traffic Mgmt RW Transition Doors														
A Kits														
Non-Recurring														
Equipment, Nonrecurring	0 / 10.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.400		
Subtotal: Non-Recurring	- / 10.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.400		
B Kits														
Recurring														
Transition Doors, Procurement	396 / 29.327	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	396 / 29.327		
Subtotal: Recurring	- / 29.327	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.327		
Subtotal: Global Air Traffic Mgmt RW Transition Doors	396 / 39.727	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	396 / 39.727		
Subtotal: Procurement, All Modification Items	9,937 / 475.957	443 / 36.444	857 / 41.521	1,030 / 33.640	- / -	1,030 / 33.640	2,124 / 54.682	2,114 / 56.126	2,392 / 55.158	2,211 / 55.153	4,310 / -	25,418 / 808.681		
Installation														

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0711 / GATM Rollup	Modification Number / Title: AA0704 / GATM Rotary Wing Aircraft

Models of Systems Affected: UH&HH60A/L, CH47D/F, UH60M, MH47G, MH60M, A/MH6, AH64A/D/E, UAS	Modification Type: New or Improved Operational Capability	Related RDT&E PEs:
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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)											
Modification Item 1 of 7: Global Air Traffic Mgmt RW APX-118	1,783 / 13.056	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,783 / 13.056
Modification Item 2 of 7: Global Air Traffic Mgmt RW APX-123	0 / 0.000	225 / 0.260	168 / 0.225	168 / 0.225	- / -	168 / 0.225	82 / 0.100	62 / 0.090	20 / 0.050	- / -	- / -	725 / 0.950
Modification Item 3 of 7: Global Air Traffic Mgmt RW APX-118 Upgrade Kits	1,157 / 5.200	638 / 1.606	125 / 0.075	389 / 0.025	- / -	389 / 0.025	388 / 0.550	- / -	- / -	- / -	- / -	2,697 / 7.456
Modification Item 4 of 7: Global Air Traffic Mgmt RW ADS-B	0 / 0.000	- / -	- / -	- / -	- / -	- / -	154 / 0.750	845 / 4.032	899 / 4.050	1,000 / 4.062	2,105 / -	5,003 / 12.894
Modification Item 5 of 7: Embedded GPS Inertial (EGI) Navigation System ECP	0 / 0.000	- / -	- / -	- / -	- / -	- / -	84 / 0.418	184 / 0.918	254 / 1.270	330 / 1.650	2,311 / -	3,163 / 4.256
Modification Item 6 of 7: Global Air Traffic Mgmt RW ARC-231	320 / 16.008	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	320 / 16.008
Modification Item 7 of 7: Global Air Traffic Mgmt RW Transition Doors	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
<i>Subtotal: Installation</i>	3,260 / 34.264	863 / 1.866	293 / 0.300	557 / 0.250	- / -	557 / 0.250	708 / 1.818	1,091 / 5.040	1,173 / 5.370	1,330 / 5.712	4,416 / -	13,691 / 54.620
Total												
Total Cost (Procurement + Support + Installation)	510.221	38.310	41.821	33.890	-	33.890	56.500	61.166	60.528	60.865	-	863.301

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0711 / GATM Rollup	Modification Number / Title: AA0704 / GATM Rotary Wing Aircraft

Modification Item 2 of 7: Global Air Traffic Mgmt RW APX-123

Manufacturer Information

Manufacturer Name: BAE Systems, Incorporated	Manufacturer Location: Greenlawn, NY
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 15

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013	Dec 2014	Dec 2015	Dec 2016			
Delivery Dates	Feb 2015	Feb 2016	Feb 2017	Feb 2018			

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

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)											
Prior Years	0 / 0.000	225 / 0.260	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	225 / 0.260
FY 2014	0 / 0.000	- / -	168 / 0.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	168 / 0.225
FY 2015	0 / 0.000	- / -	- / -	168 / 0.225	- / -	168 / 0.225	- / -	- / -	- / -	- / -	- / -	168 / 0.225
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	82 / 0.100	- / -	- / -	- / -	- / -	82 / 0.100
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	62 / 0.090	20 / 0.050	- / -	- / -	82 / 0.140
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	225 / 0.260	168 / 0.225	168 / 0.225	- / -	168 / 0.225	82 / 0.100	62 / 0.090	20 / 0.050	- / -	- / -	725 / 0.950

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	-	-	-	113	112	42	42	42	42	42	42	42	42	20	20	21	21	16	16	15	15	10	10	-	-	-	-	-	-	-	-	725
Out	-	-	-	-	113	112	42	42	42	42	42	42	42	42	20	20	21	21	16	16	15	15	10	10	-	-	-	-	-	-	-	725

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0711 / GATM Rollup	Modification Number / Title: AA0704 / GATM Rotary Wing Aircraft

Modification Item 3 of 7: Global Air Traffic Mgmt RW APX-118 Upgrade Kits

Manufacturer Information

Manufacturer Name: BAE Systems, Incorporated	Manufacturer Location: Greenlawn, NY
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 14

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates		Dec 2014	Dec 2015				
Delivery Dates		Jan 2016	Jan 2017				

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

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)											
Prior Years	1,157 / 5.200	638 / 1.606	125 / 0.075	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	1,920 / 6.881
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	389 / 0.025	- / -	389 / 0.025	- / -	- / -	- / -	- / -	- / -	389 / 0.025
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	388 / 0.550	- / -	- / -	- / -	- / -	388 / 0.550
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	1,157 / 5.200	638 / 1.606	125 / 0.075	389 / 0.025	- / -	389 / 0.025	388 / 0.550	- / -	- / -	- / -	- / -	2,697 / 7.456

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	1,157	160	161	161	156	32	31	31	31	97	97	97	98	97	97	97	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,697
Out	1,068	89	160	161	161	156	32	31	31	31	97	97	97	98	97	97	97	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,697

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0711 / GATM Rollup	Modification Number / Title: AA0704 / GATM Rotary Wing Aircraft

Modification Item 4 of 7: Global Air Traffic Mgmt RW ADS-B

Manufacturer Information

Manufacturer Name: BAE Systems, Incorporated	Manufacturer Location: Greenlawn, NY
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 16

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019
Delivery Dates			Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	154 / 0.750	- / -	- / -	- / -	- / -	154 / 0.750
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	845 / 4.032	- / -	- / -	- / -	845 / 4.032
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	899 / 4.050	- / -	- / -	899 / 4.050
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,000 / 4.062	- / -	1,000 / 4.062
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	845 / -	845 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,260 / -	1,260 / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	154 / 0.750	845 / 4.032	899 / 4.050	1,000 / 4.062	2,105 / -	5,003 / 12.894

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														
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77	77	211	211	211	212	224	225	225	225	250	250	250	250	2,105	5,003
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77	77	211	211	211	212	224	225	225	225	250	250	250	2,355	5,003

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0711 / GATM Rollup	Modification Number / Title: AA0704 / GATM Rotary Wing Aircraft

Modification Item 5 of 7: Embedded GPS Inertial (EGI) Navigation System ECP

Manufacturer Information

Manufacturer Name: Honeywell, Incorporated	Manufacturer Location: Clearwater, FL
Administrative Leadtime (in Months): 2	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Dec 2013		Dec 2015	Dec 2016	Dec 2017	Dec 2018	Dec 2019
Delivery Dates	Nov 2014		Nov 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	84 / 0.418	- / -	- / -	- / -	- / -	84 / 0.418
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	184 / 0.918	- / -	- / -	- / -	184 / 0.918
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	254 / 1.270	- / -	- / -	254 / 1.270
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	330 / 1.650	- / -	330 / 1.650
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	521 / -	521 / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,790 / -	1,790 / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	84 / 0.418	184 / 0.918	254 / 1.270	330 / 1.650	2,311 / -	3,163 / 4.256

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot	
		Q1	Q2	Q3	Q4																											
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	21	42	46	46	46	46	46	63	63	63	65	82	82	82	84	2,311	3,163
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	21	42	46	46	46	46	46	63	63	63	65	82	82	82	2,395	3,163

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0711 / GATM Rollup	Modification Number / Title: AA0704 / GATM Rotary Wing Aircraft

Modification Item 6 of 7: Global Air Traffic Mgmt RW ARC-231

Manufacturer Information

Manufacturer Name: Raytheon, Incorporated	Manufacturer Location: Fort Wayne, IN
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

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)											
Prior Years	320 / 16.008	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	320 / 16.008
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	320 / 16.008	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	320 / 16.008

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	320
Out	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	320

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: AA0711 / GATM Rollup	Modification Number / Title: AA0704 / GATM Rotary Wing Aircraft

Modification Item 7 of 7: Global Air Traffic Mgmt RW Transition Doors

Manufacturer Information

Manufacturer Name: Aviation Applied Technology Directorate (AATD)	Manufacturer Location: Fort Belvoir, VA
Administrative Leadtime (in Months):	Production Leadtime (in Months):

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

Installation Information

Method of Implementation: Modification Work Order (MWO) - Contractor

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / -	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft	P-1 Line Item Number / Title: A00018 / RQ-7 UAV MODS
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ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements: 0305204A, 0305233A				
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,390.291	121.902	125.380	81.444	8.250	89.694	89.559	81.351	97.150	22.381	-	2,017.708
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,390.291	121.902	125.380	81.444	8.250	89.694	89.559	81.351	97.150	22.381	-	2,017.708
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,390.291	121.902	125.380	81.444	8.250	89.694	89.559	81.351	97.150	22.381	-	2,017.708
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The TUAS provides Army Brigade Combat Teams, Aviation Brigades, and Special Operation Groups situational awareness, improved wide-area target acquisition, Laser Designation, and high value target (HVT) tracking to conduct both shaping and decisive operations with greatly increased lethality. The TUAS meets the need for a day/night, multi sensor collection system with improved connectivity to joint forces that provides real time battle information that cannot be observed from standoff airborne sensor systems, ground collection systems, and scouts. The key performance parameters are blocked into RQ-7B (production) thresholds and subsequent upgrade objectives. The RQ-7B system is a RSTA, Command, Control, Communications, and Intelligence (C3I) system that supports Brigade, Battalion, and lower level elements. The RQ-7B Shadow has logged over 924,000 flight hours support of Overseas Contingency Operations (OCO).

The TUAS RQ-7B completed production of 104 Army systems in 2011 (FY 2009 Funding) and entered a modifications phase. These modifications are divided into three primary sections: RQ-7B v2, System Modifications, and Payload Modifications. The RQ-7B v2 or Shadow v2 effort incorporates Type 1 Encryption, STANAG 4586 Compliant Software, a Universal Ground Control Station, a Universal Ground Data Terminal, a STANAG 4586 compliant Portable Ground Control Station, and standardizes modifications introduced during the wars in Iraq and Afghanistan. System Modifications and Payload Modifications consolidate development activities not included in the Shadow v2 Block Modification.

In 2009, the Product Office placed the last of the authorized 104 systems on contract, ending the Production phase of the acquisition. In 2010, the Army G8 established a RQ-7B UAV MODS Aircraft Procurement Exhibit approving several modifications for development and production. These modifications will be incrementally integrated, tested, and fielded in accordance with the technology readiness and funding profile. The major modifications are grouped as follows: (1) v2 Modifications (includes TCDL and Encryption), (2) Payload Modifications, and (3) System Modifications. Threshold requirements include a Heavy Fuel Engine, increased reliability, redundant avionics, electronic shielding, and SAR/GMTI. The RQ-7B v2 will be compliant with STANAG 4586 and the Joint Interoperability Profiles. To achieve this, the system incorporates the UGCS and UGDT along with an upgraded Air Data Terminal, Airborne Computer, and onboard software.

The RQ-7B v2 Shadow upgrade program complies with the congressionally mandated TCDL and North Atlantic Treaty Organization (NATO) Standardization Agreement 4586 in order to meet requirements in the Operational Requirements Document, provide a secure data link, an enhanced propulsion system, payload improvements, avionics improvements, and ground equipment improvements.

OSRVT: The One System Remote video Terminal (OSRVT) systems require an update to an Increment II OSRVT. The OSRVT upgrade Increment II program of record began in FY2012. The OSRVT Increment II consists of a transceiver, MILTOPE tablet, Antennas, UHF Modem, Type I encryption, and an extended range antenna (MDAS). Software supports decoding Telemetry Data from multiple Unmanned Aircraft Systems (UASs), provides EO/IR payload control, and supports off-target calculations.

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2016 Army							Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft					P-1 Line Item Number / Title: A00018 / RQ-7 UAV MODS					
ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements: 0305204A, 0305233A				

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	94.013	91.255	81.444	8.250	89.694	89.559	81.351	97.150	22.381
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	27.889	34.125	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	121.902	125.380	81.444	8.250	89.694	89.559	81.351	97.150	22.381

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification of Aircraft

P-1 Line Item Number / Title:
 A00018 / RQ-7 UAV MODS

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0305204A, 0305233A

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)
A00018 / RQ-7 UAV MODS (UNCLASSIFIED)	P-3a		- / 1,390.291	- / 121.902	- / 125.380	- / 81.444	- / 8.250	- / 89.694
Total Gross/Weapon System Cost			- / 1,390.291	- / 121.902	- / 125.380	- / 81.444	- / 8.250	- / 89.694

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)
A00018 / RQ-7 UAV MODS (UNCLASSIFIED)	P-3a		- / 89.559	- / 81.351	- / 97.150	- / 22.381	- / -	- / 2,017.708
Total Gross/Weapon System Cost			- / 89.559	- / 81.351	- / 97.150	- / 22.381	- / -	- / 2,017.708

*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:
 Justification: FY2016 Base funding of \$81.444 million provides for production of 4 Shadow v2 retrofits, 4 Launchers, and fielding of Shadow hardware procured in prior years. FY2016 funds also procures 263 Weatherization Kits and 32 Laser Designator (LD) Payloads for the Shadow Program. Also procures 260 OSRVT Bi-Directional (BD) Antenna retrofit kits and Installation, Engineering, Logistics, Fielding and New Equipment Training (NET).

FY2016 OCO funding of \$8.250 million replaces 50 OSRVT combat losses and non repairable systems from combat operations.

The FY16 funding request was reduced by \$5.17 million to account for the availability of prior year execution balances.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A00018 / RQ-7 UAV MODS	Modification Number / Title: A00018 / RQ-7 UAV MODS
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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>)	1,390.291	121.902	125.380	81.444	8.250	89.694	89.559	81.351	97.150	22.381	-	2,017.708
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	1,390.291	121.902	125.380	81.444	8.250	89.694	89.559	81.351	97.150	22.381	-	2,017.708
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,390.291	121.902	125.380	81.444	8.250	89.694	89.559	81.351	97.150	22.381	-	2,017.708

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

See P40 for description.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	94.013	91.255	81.444	8.250	89.694	89.559	81.351	97.150	22.381
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	27.889	34.125	-	-	-	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	121.902	125.380	81.444	8.250	89.694	89.559	81.351	97.150	22.381

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: A00018 / RQ-7 UAV MODS					Modification Number / Title: A00018 / RQ-7 UAV MODS			
Models of Systems Affected: N/A				Modification Type: UNCLASSIFIED				Related RDT&E PEs:					
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)				
Procurement													
Modification Item 1 of 4: SHADOW Version 2 (v2)													
A Kits													
Recurring													
Software	0 / 11.648	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.648	
Pubs/Tech Data	0 / 3.747	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.747	
GFE	0 / 38.037	- / 17.466	- / 17.934	- / -	- / -	- / -	- / 8.191	- / 1.671	- / -	- / -	- / -	- / 63.299	
Training Equipment	22 / 26.031	8 / 6.975	- / -	- / -	- / -	- / -	8 / 8.054	8 / 8.215	14 / 14.665	- / -	- / -	60 / 63.940	
Training (NET)	0 / 26.610	- / -	- / 19.361	- / 12.386	- / -	- / 12.386	- / 19.733	- / 19.928	- / 10.127	- / -	- / -	- / 68.145	
Program Management	0 / 32.278	- / 2.940	- / 14.003	- / 11.366	- / -	- / 11.366	- / 12.025	- / 1.972	- / 1.648	- / -	- / -	- / 46.232	
Engineering	0 / 11.789	- / 5.517	- / 13.273	- / 10.877	- / -	- / 10.877	- / 1.299	- / 1.265	- / 1.057	- / -	- / -	- / 25.077	
Logistics	0 / 19.007	- / -	- / 16.545	- / 11.753	- / -	- / 11.753	- / 12.597	- / 2.529	- / 2.113	- / -	- / -	- / 34.544	
Subtotal: Recurring	- / 169.147	- / 22.898	- / 31.116	- / 6.382	- / -	- / 6.382	- / 31.899	- / 25.580	- / 29.610	- / -	- / -	- / 316.632	
Non-Recurring													
Nonrecurring Engineering Obsolesence	0 / 52.680	- / 13.226	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 65.906	
Subtotal: Non-Recurring	- / 52.680	- / 13.226	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 65.906	
B Kits													
Recurring													
Shadow v2 Retrofit Kits	68 / 574.314	8 / 60.993	20 / 76.064	4 / 19.909	- / -	4 / 19.909	- / -	- / -	- / -	- / -	- / -	100 / 731.280	
UGCS Only System Retrofit	28 / 89.763	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 89.763	
Launchers	42 / 12.027	8 / 3.423	- / -	4 / 1.765	- / -	4 / 1.765	14 / 6.301	18 / 8.263	20 / 9.365	- / -	- / -	106 / 41.144	
MMF Retrofit Kits	13 / 10.313	8 / 6.533	- / -	- / -	- / -	- / -	8 / 6.922	5 / 4.413	- / -	- / -	- / -	34 / 28.181	
Subtotal: Recurring	- / 686.417	- / 70.949	- / 76.064	- / 21.674	- / -	- / 21.674	- / 13.223	- / 12.676	- / 9.365	- / -	- / -	- / 890.368	
Subtotal: SHADOW Version 2 (v2)	173 / 908.244	32 / 107.073	20 / 107.180	8 / 28.056	- / -	8 / 28.056	30 / 45.122	31 / 38.256	34 / 38.975	- / -	- / -	328 / 1,272.906	
Modification Item 2 of 4: SHADOW SYSTEM MODIFICATIONS													
A Kits													
Recurring													
Weatherization	- / -	- / -	- / -	263 / 9.000	- / -	263 / 9.000	- / -	- / -	120 / 4.354	- / -	- / -	383 / 13.354	
Nonrecurring Engineering (NRE)	0 / 2.150	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.150	
GPS Denied	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.075	- / -	- / -	- / 5.075	
Program Management	0 / 3.630	- / 0.081	- / -	- / 10.529	- / -	- / 10.529	- / 10.669	- / 10.691	- / 1.122	- / 1.235	- / -	- / 17.957	
Engineering	0 / 1.295	- / -	- / -	- / 10.339	- / -	- / 10.339	- / 10.429	- / 10.443	- / 0.720	- / 0.792	- / -	- / 14.018	
Logistics	0 / 1.717	- / -	- / -	- / 10.678	- / -	- / 10.678	- / 10.858	- / 10.886	- / 1.439	- / 1.584	- / -	- / 17.162	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: A00018 / RQ-7 UAV MODS					Modification Number / Title: A00018 / RQ-7 UAV MODS			
Models of Systems Affected: N/A				Modification Type: UNCLASSIFIED				Related RDT&E PEs:					
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)				
<i>Subtotal: Recurring</i>	- / 8.792	- / 0.081	- / -	- / 10.546	- / -	- / 10.546	- / 1.956	- / 2.020	- / 12.710	- / 3.611	- / -	- / 39.716	
B Kits													
Recurring													
Attrition Air Vehicles	71 / 56.223	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	71 / 56.223	
Mission Computer	- / -	25 / 1.371	- / -	- / -	- / -	- / -	80 / 4.849	140 / 8.632	220 / 13.835	- / -	- / -	465 / 28.687	
Block III Engine	- / -	- / -	- / -	- / -	- / -	- / -	150 / 8.111	50 / 2.758	- / -	- / -	- / -	200 / 10.869	
<i>Subtotal: Recurring</i>	- / 56.223	- / 1.371	- / -	- / -	- / -	- / -	- / 12.960	- / 11.390	- / 13.835	- / -	- / -	- / 95.779	
<i>Subtotal: SHADOW SYSTEM MODIFICATIONS</i>	71 / 65.015	25 / 1.452	- / -	263 / 10.546	- / -	263 / 10.546	230 / 14.916	190 / 13.410	340 / 26.545	- / 3.611	- / -	1,119 / 135.495	
Modification Item 3 of 4: SHADOW PAYLOAD UPGRADES/MODIFICATIONS													
A Kits													
Recurring													
Training	0 / 5.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.700	
Program Management	0 / 3.506	- / -	- / -	- / 1.210	- / -	- / 1.210	- / 0.474	- / 0.569	- / 0.526	- / -	- / -	- / 6.285	
Engineering	0 / 1.399	- / -	- / -	- / 0.776	- / -	- / 0.776	- / 0.304	- / 0.364	- / 0.337	- / -	- / -	- / 3.180	
Logistics	0 / 2.698	- / -	- / -	- / 1.551	- / -	- / 1.551	- / 0.608	- / 0.728	- / 0.675	- / -	- / -	- / 6.260	
<i>Subtotal: Recurring</i>	- / 13.303	- / -	- / -	- / 3.537	- / -	- / 3.537	- / 1.386	- / 1.661	- / 1.538	- / -	- / -	- / 21.425	
B Kits													
Recurring													
Laser Designator	106 / 108.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	106 / 108.850	
EO/IR/LD Upgrade	- / -	- / -	- / -	32 / 20.745	- / -	32 / 20.745	14 / 9.175	14 / 9.527	16 / 10.992	- / -	- / -	76 / 50.439	
<i>Subtotal: Recurring</i>	- / 108.850	- / -	- / -	- / 20.745	- / -	- / 20.745	- / 9.175	- / 9.527	- / 10.992	- / -	- / -	- / 159.289	
<i>Subtotal: SHADOW PAYLOAD UPGRADES/MODIFICATIONS</i>	106 / 122.153	- / -	- / -	32 / 24.282	- / -	32 / 24.282	14 / 10.561	14 / 11.188	16 / 12.530	- / -	- / -	182 / 180.714	
Modification Item 4 of 4: OSRVT MODIFICATIONS													
A Kits													
Recurring													
Army TIES Retrofit Kits	470 / 56.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	470 / 56.900	
Program Management	0 / 13.035	- / 0.380	- / 1.485	- / 0.863	- / -	- / 0.863	- / 0.880	- / 0.898	- / 0.916	- / 0.934	- / -	- / 19.391	
Logistics/TPF/NET	0 / 2.177	- / 2.594	- / 3.611	- / 3.904	- / -	- / 3.904	- / 3.982	- / 4.062	- / 4.143	- / 4.226	- / -	- / 28.699	
<i>Subtotal: Recurring</i>	- / 72.112	- / 2.974	- / 5.096	- / 4.767	- / -	- / 4.767	- / 4.862	- / 4.960	- / 5.059	- / 5.160	- / -	- / 104.990	
Non-Recurring													
Non Recurring Engineering	- / -	- / 1.692	- / 0.208	- / 0.670	- / -	- / 0.670	- / 0.552	- / 0.631	- / 0.877	- / 0.451	- / -	- / 5.081	
OSRVT Software License	- / -	- / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.000	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army										Date: February 2015			
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10					P-1 Line Item Number / Title: A00018 / RQ-7 UAV MODS					Modification Number / Title: A00018 / RQ-7 UAV MODS			
Models of Systems Affected: N/A				Modification Type: UNCLASSIFIED				Related RDT&E PEs:					
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	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>				
Engineering/Technical Services	0 / 6.024	- / 0.381	- / 1.485	- / 0.863	- / -	- / 0.863	- / 0.880	- / 0.898	- / 0.916	- / 0.935	- / -	- / 12.382	
<i>Subtotal: Non-Recurring</i>	<i>- / 6.024</i>	<i>- / 4.073</i>	<i>- / 1.693</i>	<i>- / 1.533</i>	<i>- / -</i>	<i>- / 1.533</i>	<i>- / 1.432</i>	<i>- / 1.529</i>	<i>- / 1.793</i>	<i>- / 1.386</i>	<i>- / -</i>	<i>- / 19.463</i>	
B Kits													
Recurring													
OSRVT System	- / -	- / -	20 / 2.858	- / -	50 / 8.250	50 / 8.250	5 / 0.831	5 / 0.847	5 / 0.864	43 / 7.580	- / -	128 / 21.230	
OSRVT Retrofit Kits	2,937 / 212.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,937 / 212.900	
OSRVT MDAS Antennas	55 / 3.843	93 / 6.330	125 / 8.553	- / -	- / -	- / -	- / -	- / -	- / -	27 / 2.559	- / -	300 / 21.285	
BI-Directional Retrofit Kits	- / -	- / -	- / -	280 / 12.260	- / -	280 / 12.260	265 / 11.835	245 / 11.161	245 / 11.384	44 / 2.085	- / -	1,079 / 48.725	
<i>Subtotal: Recurring</i>	<i>- / 216.743</i>	<i>- / 6.330</i>	<i>- / 11.411</i>	<i>- / 12.260</i>	<i>- / 8.250</i>	<i>- / 20.510</i>	<i>- / 12.666</i>	<i>- / 12.008</i>	<i>- / 12.248</i>	<i>- / 12.224</i>	<i>- / -</i>	<i>- / 304.140</i>	
<i>Subtotal: OSRVT MODIFICATIONS</i>	<i>3,462 / 294.879</i>	<i>93 / 13.377</i>	<i>145 / 18.200</i>	<i>280 / 18.560</i>	<i>50 / 8.250</i>	<i>330 / 26.810</i>	<i>270 / 18.960</i>	<i>250 / 18.497</i>	<i>250 / 19.100</i>	<i>114 / 18.770</i>	<i>- / -</i>	<i>4,914 / 428.593</i>	
<i>Subtotal: Procurement, All Modification Items</i>	<i>3,812 / 1,390.291</i>	<i>150 / 121.902</i>	<i>165 / 125.380</i>	<i>583 / 81.444</i>	<i>50 / 8.250</i>	<i>633 / 89.694</i>	<i>544 / 89.559</i>	<i>485 / 81.351</i>	<i>640 / 97.150</i>	<i>114 / 22.381</i>	<i>- / -</i>	<i>6,543 / 2,017.708</i>	
Installation													
<i>Modification Item 1 of 4: SHADOW Version 2 (v2)</i>	<i>0 / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
<i>Modification Item 2 of 4: SHADOW SYSTEM MODIFICATIONS</i>	<i>0 / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
<i>Modification Item 3 of 4: SHADOW PAYLOAD UPGRADES/MODIFICATIONS</i>	<i>0 / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
<i>Modification Item 4 of 4: OSRVT MODIFICATIONS</i>	<i>0 / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
<i>Subtotal: Installation</i>	<i>0 / 0.000</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	<i>- / -</i>	
Total													
Total Cost (Procurement + Support + Installation)	1,390.291	121.902	125.380	81.444	8.250	89.694	89.559	81.351	97.150	22.381	-	2,017.708	

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A00018 / RQ-7 UAV MODS	Modification Number / Title: A00018 / RQ-7 UAV MODS

Modification Item 1 of 4: SHADOW Version 2 (v2)

Manufacturer Information

Manufacturer Name: AAI	Manufacturer Location: Hunt Valley, MD
Administrative Leadtime (in Months): 7	Production Leadtime (in Months): 18

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Feb 2015	Jun 2015	May 2016	May 2017	May 2018	May 2019	
Delivery Dates	May 2016	Dec 2016	Nov 2017	Nov 2018	Nov 2019	Nov 2020	

Installation Information

Method of Implementation: FFP Contract

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A00018 / RQ-7 UAV MODS	Modification Number / Title: A00018 / RQ-7 UAV MODS

Modification Item 2 of 4: SHADOW SYSTEM MODIFICATIONS

Manufacturer Information

Manufacturer Name: AAI	Manufacturer Location: Hunt Valley, MD
Administrative Leadtime (in Months): 18	Production Leadtime (in Months): 18

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates			May 2016	May 2017	May 2018	May 2019	
Delivery Dates			Nov 2018	Nov 2019	Jul 2020	Nov 2021	

Installation Information

Method of Implementation: FFP Contract

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A00018 / RQ-7 UAV MODS	Modification Number / Title: A00018 / RQ-7 UAV MODS

Modification Item 3 of 4: SHADOW PAYLOAD UPGRADES/MODIFICATIONS

Manufacturer Information

Manufacturer Name: AAI	Manufacturer Location: Hunt Valley, MD
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 2016	Apr 2017	Apr 2018	Apr 2019	
Delivery Dates			Oct 2016	Oct 2017	Oct 2018	Oct 2019	

Installation Information

Method of Implementation: FFP Contract

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

Exhibit P-3a, Individual Modification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 02 / 10	P-1 Line Item Number / Title: A00018 / RQ-7 UAV MODS	Modification Number / Title: A00018 / RQ-7 UAV MODS

Modification Item 4 of 4: OSRVT MODIFICATIONS

Manufacturer Information

Manufacturer Name: AAI	Manufacturer Location: Hunt Valley, MD
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 12

Dates	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Contract Dates	Jan 2015	Jul 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020
Delivery Dates	Feb 2015	Jul 2016	Mar 2017	Mar 2018	Mar 2019	Mar 2020	Mar 2021

Installation Information

Method of Implementation: FFP Contract

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)											
Prior Years	0 / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000	- / 0.000
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2019	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2020	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

Installation Schedule

	PYS	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				TC	Tot
		Q1	Q2	Q3	Q4																										
In	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Out	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA
10: Ground Support Avionics

P-1 Line Item Number / Title:
AZ3504 / Aircraft Survivability Equipment

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

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 (Units in Each)	-	-	-	-	-	-	140	29	20	110	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	784.794	47.610	89.059	56.215	-	56.215	169.581	36.810	41.133	144.724	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	11.565	-	-	-	-	-	-	-	-	-	-	11.565
Net Procurement (P1) (\$ in Millions)	773.229	47.610	89.059	56.215	-	56.215	169.581	36.810	41.133	144.724	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	11.565	-	-	-	-	-	-	-	-	-	-	11.565
Total Obligation Authority (\$ in Millions)	784.794	47.610	89.059	56.215	-	56.215	169.581	36.810	41.133	144.724	Continuing	Continuing

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	1,211.293	1,269.310	2,056.650	1,315.673	Continuing	Continuing

Description:

The Aircraft Survivability Equipment (ASE) budget line includes ASE Trainers (AZ3506), ASE Laser Countermeasures (AZ3508), and ASE Radio Frequency Countermeasures (AZ3511).

AZ3506 ASE Trainers

The Man-portable Aircraft Survivability Trainer (MAST) is a systems trainer for the Common Missile Warning System (CMWS). MAST provides force-on-force training by stimulation of the onboard CMWS at the Maneuver Combat Training Centers (MCTC). The aircraft training against the MAST system include the Apache, Chinook, Kiowa Warrior, Blackhawk, and Fixed Wing platforms.

AZ3508 ASE Laser CM

APO = 1,332

The AN/AVR-2B Laser Detecting Set (LDS) installed on Army rotary-wing aircraft passively detects laser-aided weapons targeting the aircraft and alerts aircrews, allowing them to engage the threat or maneuver to break the targeting. The system detects aircraft illumination by laser rangefinders, laser target designators, and laser beam rider surface-to-air missiles. The system provides the aircrew visual and aural warnings prioritized by threat lethality using 360 degree azimuth and 90 degree elevation field of view coverage.

AZ3511 Radio Frequency CM

APO = 1,200

The objective of the Aircraft Survivability Equipment (ASE) Development project is to improve Radio Frequency (RF) ASE for Army aviation. The APR-39 Radar Warning Receiver (RWR) detects, categorizes, and prioritizes Radio Frequency (RF) emitters and provides a visual / aural alert to aircrew members warning them of targeting by RF-guided weapons. The Milestone Decision Authority (MDA) approved Phases 1 and 2 of a 3-phased path forward.

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics	P-1 Line Item Number / Title: AZ3504 / Aircraft Survivability Equipment
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ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
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Phase 1 serves as an obsolescence / sustainment upgrade to the Processor Line Replaceable Unit (LRU) of the AN/APR-39A(V) Radar Warning Receiver (RWR) implemented to ensure that the currently fielded system remains viable until affordable improved RF ASE capability can be pursued in Phases 2 and 3.

Phase 2, RWR Modernization, adopts the ongoing United States Navy Class I RWR Engineering Change Proposal (ECP), commonly referred to as the APR-39D(V)2 system. APR-39D(V)2 will significantly improve the near-spherical RF threat coverage, automatic detection and identification of threat types, bearing, and lethality. Under Phase 2, the Army will develop enhancements to the APR-39D(V)2, including integrated suite control functionality, threat correlation, and hardware upgrades needed to keep the APR-39D(V)2 technically relevant and address emerging Low Probability Intercept (LPI) and frequency agile threats.

Phase 3 adds active Electronic Countermeasures (ECM) jamming capability for selected aircraft; Materiel Development Decision (MDD) for this ECM jamming capability phase is not expected until later in the Future Years Defense Program (FYDP).

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	140	29	20	110
	Total Obligation Authority	47.610	89.059	56.215	-	56.215	169.581	36.810	41.133	144.724
Total: Secondary Distribution	Quantity	-	-	-	-	-	140	29	20	110
	Total Obligation Authority	47.610	89.059	56.215	-	56.215	169.581	36.810	41.133	144.724

UNCLASSIFIED

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

Appropriation / Budget Activity / Budget Sub Activity:
 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics

P-1 Line Item Number / Title:
 AZ3504 / Aircraft Survivability Equipment

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
AZ3506 / ASE Trainers	P-40a		- / 365.975	- / 2.666	- / -	- / -	- / -	- / -
AZ3508 / ASE Laser CM	P-5, P-5a, P-21		- / 320.223	- / 44.944	- / 32.896	- / 27.485	- / -	- / 27.485
AZ3511 / Radio Frequency CM	P-5, P-5a, P-21		- / 98.596	- / -	- / 56.163	- / 28.730	- / -	- / 28.730
Total Gross/Weapon System Cost			- / 784.794	- / 47.610	- / 89.059	- / 56.215	- / -	- / 56.215

*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:
 AZ3506 ASE Trainers: There is no Fiscal Year (FY) 2016 Base Procurement dollar funding requirement due to the transition of MAST to sustainment.

AZ3508 ASE Laser CM: Fiscal Year (FY) 2016 Base procurement dollars in the amount of \$27.485 million procures AN/AVR-2B A-Kits for CH-47F aircraft, finishes A-Kit installation on UH-60L and begins A-Kit installation on CH-47F aircraft in support of required operational capabilities, and integration of AN/AVR-2B LDS with other ASE systems.

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.

AZ3511 Radio Frequency CM: Fiscal Year (FY) 2016 Base Procurement dollars in the amount of \$28.730 million supports procurement of B-Kit integration assets, A-Kits, and System Test and Evaluation.

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.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: AZ3504 / Aircraft Survivability Equipment	Aggregated Items Title: Various
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Note: Subtotals or Totals in this Exhibit P-40a may not be exact or add, due to rounding.

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
ASE Trainers																				
AZ3506 / ASE Trainers			-	-	365.975	-	-	2.666	-	-	-	-	-	-	-	-	-	-	-	-
<i>Secondary Distribution</i>																				
Army			-	-	-	-	-	2.666	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: ASE Trainers</i>			-	-	365.975	-	-	2.666	-	-	-	-	-	-	-	-	-	-	-	-
Total			-	-	365.975	-	-	2.666	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2016 Army					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10		P-1 Line Item Number / Title: AZ3504 / Aircraft Survivability Equipment			Item Number / Title [DODIC]: AZ3508 / ASE Laser CM		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		320.223	44.944	32.896	27.485	-	27.485
Less PY Advance Procurement (\$ in Millions)		11.565	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		308.658	44.944	32.896	27.485	-	27.485
Plus CY Advance Procurement (\$ in Millions)		11.565	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		320.223	44.944	32.896	27.485	-	27.485
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Recurring Production	-	-	204.213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Engineering (A-Kit)	-	-	6.000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A-Kit Procurement ^(†)	-	-	16.914	32.933	179	5.895	-	-	-	70.496	139	9.799	-	-	-	70.496	139	9.799
A-Kit Installation	-	-	12.318	45.098	255	11.500	65.210	200	13.042	92.606	155	14.354	-	-	-	92.606	155	14.354
A-Kit filters	-	-	-	0.511	350	0.179	6.500	100	0.650	-	-	-	-	-	-	-	-	-
B-Kit Procurement ^(†)	-	-	64.197	190.690	58	11.060	-	-	-	-	-	-	-	-	-	-	-	-
Other Production (Brackets)	-	-	0.085	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prime Contractor Program Mgt	-	-	2.229	-	-	0.980	-	-	1.010	-	-	0.932	-	-	-	-	-	0.932
Systems Engineering	-	-	7.990	-	-	2.023	-	-	1.510	-	-	1.130	-	-	-	-	-	1.130
Program Management	-	-	-	-	-	2.022	-	-	1.480	-	-	1.248	-	-	-	-	-	1.248
Systems Test and Evaluation	-	-	3.322	-	-	3.120	-	-	2.100	-	-	-	-	-	-	-	-	-
Training	-	-	0.225	-	-	8.150	-	-	-	-	-	-	-	-	-	-	-	-
Fielding	-	-	2.730	-	-	0.015	-	-	0.021	-	-	0.022	-	-	-	-	-	0.022
Other Procurement	-	-	-	-	-	-	-	-	13.083	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	320.223	-	-	44.944	-	-	32.896	-	-	27.485	-	-	-	-	-	27.485
<i>Subtotal: Flyaway Cost</i>	-	-	320.223	-	-	44.944	-	-	32.896	-	-	27.485	-	-	-	-	-	27.485

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Exhibit P-5, Cost Analysis: PB 2016 Army												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10						P-1 Line Item Number / Title: AZ3504 / Aircraft Survivability Equipment						Item Number / Title [DODIC]: AZ3508 / ASE Laser CM					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	320.223	-	-	44.944	-	-	32.896	-	-	27.485	-	-	-	-	-	27.485

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	44.944	32.896	27.485	-	27.485
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	44.944	32.896	27.485	-	27.485

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: AZ3504 / Aircraft Survivability Equipment	Item Number / Title [DODIC]: AZ3508 / ASE Laser CM
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
A-Kit Procurement ^(†)		2014	SSAI / Huntsville, AL	C / FFP	LSFMA, Redstone Arsenal, AL	Mar 2014	Dec 2014	179	32.933			
A-Kit Procurement ^(†)		2016	Various / Various	C / FFP	LSFMA, Redstone Arsenal	Dec 2015	Sep 2016	139	70.496			
B-Kit Procurement ^(†)		2014	UTC Aerospace Systems / Danbury, CT	SS / FFP	AMCOM Contracting Command, RSA	May 2014	Feb 2015	58	190.690			

^(†) indicates the presence of a P-21

Remarks:

The increase in unit price for A-Kits (FY15) includes the change in procurement from all 4 sensor systems on UH-60 platforms to a mix of 4 and 6 sensor systems to support the CH-47 platforms. FY16 will be all 6 sensor A-Kits in support of CH-47 platforms.

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10 **P-1 Line Item Number / Title:** AZ3504 / Aircraft Survivability Equipment **Item Number / Title [DODIC]:** AZ3508 / ASE Laser CM

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015												
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P
A-Kit Procurement																														
	1	2014	ARMY	179	-	179																								
	2	2016	ARMY	139	-	139																						139		
B-Kit Procurement																														
	3	2014	ARMY	58	-	58																								

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10 **P-1 Line Item Number / Title:** AZ3504 / Aircraft Survivability Equipment **Item Number / Title [DODIC]:** AZ3508 / ASE Laser CM

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
A-Kit Procurement																															
	1	2014	ARMY	179	179	-																									
	2	2016	ARMY	139	-	139			A	-	-	-	-	-	-	-	-	25	25	25	25	25	25	14							
B-Kit Procurement																															
	3	2014	ARMY	58	58	-																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10		P-1 Line Item Number / Title: AZ3504 / Aircraft Survivability Equipment
		Item Number / Title [DODIC]: AZ3508 / ASE Laser CM

MFR Ref #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	SSAI - Huntsville, AL	30	125	300	-	3	9	12	-	3	9	12
2	Various - Various	30	125	300	-	3	9	12	-	3	9	12
3	UTC Aerospace Systems - Danbury, CT	30	120	240	-	3	9	12	-	3	9	12

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

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

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: AZ3504 / Aircraft Survivability Equipment	Item Number / Title [DODIC]: AZ3511 / Radio Frequency CM

ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		98.596	-	56.163	28.730	-	28.730
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		98.596	-	56.163	28.730	-	28.730
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		98.596	-	56.163	28.730	-	28.730
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
Training	-	-	-	-	-	-	-	-	0.300	-	-	-	-	-	-	-	-	-
A-Kit Procurements ^(†)	-	-	-	-	-	-	-	-	-	1,266.600	5	6.333	-	-	-	1,266.600	5	6.333
B-Kit Procurements ^(†)	-	-	-	-	-	-	1,152.769	13	14.986	1,000.000	6	6.000	-	-	-	1,000.000	6	6.000
System Test and Evaluation	-	-	-	-	-	-	-	-	4.185	-	-	6.363	-	-	-	-	-	6.363
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	19.471	-	-	18.696	-	-	-	-	-	18.696
Non Recurring Cost																		
Initial Production Facility	-	-	-	-	-	-	-	-	0.827	-	-	-	-	-	-	-	-	-
Platform Integration	-	-	-	-	-	-	-	-	21.397	-	-	-	-	-	-	-	-	-
Other Procurement	-	-	-	-	-	-	-	-	10.397	-	-	1.000	-	-	-	-	-	1.000
<i>Subtotal: Non Recurring Cost</i>	-	-	-	-	-	-	-	-	32.621	-	-	1.000	-	-	-	-	-	1.000
<i>Subtotal: Hardware Cost</i>	-	-	-	-	-	-	-	-	52.092	-	-	19.696	-	-	-	-	-	19.696
Support Cost																		
SEPM	-	-	-	-	-	-	-	-	1.542	-	-	2.237	-	-	-	-	-	2.237
Prime Contractor Program Mgt	-	-	-	-	-	-	-	-	2.020	-	-	2.060	-	-	-	-	-	2.060
Other	-	-	98.596	-	-	-	-	-	0.081	-	-	0.300	-	-	-	-	-	0.300
Program Management	-	-	-	-	-	-	-	-	0.428	-	-	4.437	-	-	-	-	-	4.437
<i>Subtotal: Support Cost</i>	-	-	98.596	-	-	-	-	-	4.071	-	-	9.034	-	-	-	-	-	9.034

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Exhibit P-5, Cost Analysis: PB 2016 Army												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10						P-1 Line Item Number / Title: AZ3504 / Aircraft Survivability Equipment						Item Number / Title [DODIC]: AZ3511 / Radio Frequency CM					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	98.596	-	-	-	-	-	56.163	-	-	28.730	-	-	-	-	-	28.730

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	56.163	28.730	-	28.730
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	-	56.163	28.730	-	28.730

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: AZ3504 / Aircraft Survivability Equipment	Item Number / Title [DODIC]: AZ3511 / Radio Frequency CM
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
A-Kit Procurements ^(t)		2016	Various / Various	C / FFP	TBD	May 2016	Mar 2017	5	1,266.600			
B-Kit Procurements ^(t)		2015	Northrop Grumman / Rolling Meadows, IL	SS / IDIQ	TBD	Jun 2015	Apr 2016	13	1,152.769			
B-Kit Procurements ^(t)		2016	Northrop Grumman / Rolling Meadows, IL	SS / IDIQ	TBD	Jun 2016	Apr 2017	6	1,000.000			

^(t) indicates the presence of a P-21

Remarks:
FY15 / FY16 B-Kits are for integration purposes

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10 **P-1 Line Item Number / Title:** AZ3504 / Aircraft Survivability Equipment **Item Number / Title [DODIC]:** AZ3511 / Radio Frequency CM

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2015												Fiscal Year 2016													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015												Calendar Year 2016												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
A-Kit Procurements																															
	1	2016	ARMY	5	-	5																									
B-Kit Procurements																															
	2	2015	ARMY	13	-	13																									
	2	2016	ARMY	6	-	6																									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: AZ3504 / Aircraft Survivability Equipment	Item Number / Title [DODIC]: AZ3511 / Radio Frequency CM
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
A-Kit Procurements																															
	1	2016	ARMY	5	-	5	-	-	-	-	-	-	-	5																-	
B-Kit Procurements																															
	2	2015	ARMY	13	13	-																								-	
	2	2016	ARMY	6	-	6	-	-	-	-	-	-	-	6																-	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: AZ3504 / Aircraft Survivability Equipment	Item Number / Title [DODIC]: AZ3511 / Radio Frequency CM
--	---	--

MFR Ref #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial			Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	
1	Various - Various	30	125	300	-	3	9	12	-	3	9	12
2	Northrop Grumman - Rolling Meadows, IL	24	125	250	-	3	18	21	-	3	18	21

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

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

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

Appropriation / Budget Activity / Budget Sub Activity:
 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA
 10: Ground Support Avionics

P-1 Line Item Number / Title:
 AZ3507 / Survivability CM

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

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>)	50.712	5.700	7.800	8.917	-	8.917	9.651	1.120	-	-	55.100	139.000
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (<i>\$ in Millions</i>)	50.712	5.700	7.800	8.917	-	8.917	9.651	1.120	-	-	55.100	139.000
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	50.712	5.700	7.800	8.917	-	8.917	9.651	1.120	-	-	55.100	139.000

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Advanced Threat Infrared Countermeasure System (ATIRCM) is an infrared (IR) countermeasure system that interfaces with the Common Missile Warning System (CMWS) to provide near spherical protection of the host aircraft platform in order to defeat IR threat missiles. The US Army's concept of ATIRCM is part of the Suite of Integrated Infrared Countermeasures (SIIRCM). The core components of the SIIRCM concept are: a Missile Warning System (MWS), expendable countermeasures (flares) and a laser based IR countermeasure (IRCM). The CMWS detects, declares, and initiates IRCM against IR-guided Surface-to-Air Missiles (SAM) or Air-to-Air Missiles (AAM).

The A-Kit for ATIRCM includes mounting hardware, wiring harnesses, and other components necessary to install and interface the mission kit on host aircraft. The ATIRCM B-Kit is the mission kit (laser, optical coupler, infrared jam head, and jam head control unit) required to achieve near spherical coverage for an aircraft.

The ATIRCM program is a post-Milestone C, Acquisition Category (ACAT) 1C program of record fielded on CH-47F aircraft.

The Approved Acquisition Objective (AAO) for ATIRCM is 340 A-Kits and 120 B-Kits.

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.700	7.800	8.917	-	8.917	9.651	1.120	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-
	Total Obligation Authority	5.700	7.800	8.917	-	8.917	9.651	1.120	-

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

Appropriation / Budget Activity / Budget Sub Activity:
 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA
 10: Ground Support Avionics

P-1 Line Item Number / Title:
 AZ3507 / Survivability CM

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
AZ3507 / Survivability CM	P-5		- / 50.712	- / 5.700	- / 7.800	- / 8.917	- / -	- / 8.917
Total Gross/Weapon System Cost			- / 50.712	- / 5.700	- / 7.800	- / 8.917	- / -	- / 8.917

*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:
 Fiscal Year (FY) 2016 Base Procurement dollars in the amount of \$8.917 million funds ATIRCM A-Kit installation, fielding, testing, Jam Code update to counter emerging Man-Portable Air Defense (MANPAD) threats, and support across the CH-47F aircraft fleet to include integration requiring recurring and non-recurring modification work order activities.

The FY16 funding request was reduced by \$2.823 million to account for the availability of prior year execution balances.

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Exhibit P-5, Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: AZ3507 / Survivability CM	Item Number / Title [DODIC]: AZ3507 / Survivability CM
--	---	--

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

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	50.712	5.700	7.800	8.917	-	8.917
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	50.712	5.700	7.800	8.917	-	8.917
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	50.712	5.700	7.800	8.917	-	8.917

(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 Thousands)</i>	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
ATIRCM Recurring Production/Installation	-	-	-	-	-	5.266	-	-	7.600	-	-	5.273	-	-	-	-	-	5.273
ATIRCM System Engineering/Program Mgt	-	-	50.712	-	-	0.434	-	-	0.200	-	-	0.675	-	-	-	-	-	0.675
ATIRCM System Test and Evaluation	-	-	-	-	-	-	-	-	-	-	-	2.969	-	-	-	-	-	2.969
<i>Subtotal: Recurring Cost</i>	-	-	50.712	-	-	5.700	-	-	7.800	-	-	8.917	-	-	-	-	-	8.917
<i>Subtotal: Flyaway Cost</i>	-	-	50.712	-	-	5.700	-	-	7.800	-	-	8.917	-	-	-	-	-	8.917
Gross/Weapon System Cost	-	-	50.712	-	-	5.700	-	-	7.800	-	-	8.917	-	-	-	-	-	8.917

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army					
Quantity	-	-	-	-	-
Total Obligation Authority	5.700	7.800	8.917	-	8.917
Total: Secondary Distribution					
Quantity	-	-	-	-	-
Total Obligation Authority	5.700	7.800	8.917	-	8.917

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics
P-1 Line Item Number / Title: AZ3517 / CMWS

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0604274A

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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	229.451	103.021	60.401	78.348	-	78.348	42.000	38.331	33.358	19.110	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	229.451	103.021	60.401	78.348	-	78.348	42.000	38.331	33.358	19.110	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	229.451	103.021	60.401	78.348	-	78.348	42.000	38.331	33.358	19.110	Continuing	Continuing

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

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

Description:

APO = 1,351

The US Army operational requirements concept for Aviation Infrared (IR) countermeasure systems is known as the Suite of Integrated Infrared Countermeasures (SIIRCM). SIIRCM is an integrated warning and countermeasure system to enhance aircraft survivability against IR-guided threat missile systems. The Common Missile Warning System (CMWS) is a core element of the SIIRCM concept. CMWS is an integrated ultraviolet (UV) missile warning system, with an Improved Countermeasure Dispenser (ICMD) serving as a subsystem to a host aircraft.

The CMWS program is a UV missile warning system that cues both flare and laser-based countermeasures to defeat incoming IR-seeking missiles and will alert aircrews to the presence of certain incoming unguided munitions. The B-Kit consists of the components which perform the missile detection and aircrew notification, unguided munitions detection and aircrew notification, false alarm rejection, and countermeasure employment/cueing functions of the system. The CMWS Electronic Control Unit (ECU) receives UV missile detection data from Electro-Optic Missile Sensors (EOMS) and sends a missile alert signal to warn aircrews via on-board avionics. Tier 1 threat missiles detected and tracked by the CMWS are subsequently defeated by a combination of missile seeker countermeasures, including decoy flares and IR Laser Jamming (currently ATIRCM equipped CH-47 platform only). In addition, the CMWS ECU receives from the EOMS unguided munitions detection data which is also passed to the aircrew through aural and visual cues. The aircrew then applies the appropriate Tactics, Techniques and Procedures (TTPs) to break contact or engage the enemy with on-ship ordnance. The CMWS Generation 3 (Gen 3) ECU in conjunction with ongoing software development efforts will address outstanding material release conditions to achieve a Full Material Release (FMR) for CMWS and ensure protection against emerging IR-guided missile threats.

The A-Kit for CMWS includes mounting hardware, wiring harnesses, cables, and other components necessary to install and interface the mission kit on host aircraft. The A-Kit ensures the mission kit is functionally and physically operational with a specific host aircraft type.

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

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics
P-1 Line Item Number / Title: AZ3517 / CMWS

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0604274A

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	103.021	60.401	78.348	-	78.348	42.000	38.331	33.358	19.110
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	103.021	60.401	78.348	-	78.348	42.000	38.331	33.358	19.110

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

Appropriation / Budget Activity / Budget Sub Activity:
 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA
 10: Ground Support Avionics

P-1 Line Item Number / Title:
 AZ3517 / CMWS

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0604274A

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)					
AZ3517 / CMWS	P-5, P-5a, P-21		- / 229.451	- / 103.021	- / 60.401	- / 78.348	- / -	- / 78.348
Total Gross/Weapon System Cost			- / 229.451	- / 103.021	- / 60.401	- / 78.348	- / -	- / 78.348

*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:
 Fiscal Year (FY) 2016 Base procurement dollars in the amount of \$78.348 million supports CMWS A-Kit installations on rotary wing and fixed wing aircraft such as the UH-60 and C-12, software modifications efforts required to achieve full material release, associated system test and evaluation efforts, and integration with other ASE systems.

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.

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Exhibit P-5, Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: AZ3517 / CMWS	Item Number / Title [DODIC]: AZ3517 / CMWS
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	229.451	103.021	60.401	78.348	-	78.348
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	229.451	103.021	60.401	78.348	-	78.348
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	229.451	103.021	60.401	78.348	-	78.348

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

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

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
CMWS A-Kit Fixed Wing Installation	-	-	125.726	-	-	10.550	1,105.556	9	9.950	-	-	6.000	-	-	-	-	-	6.000
CMWS A-Kit Rotary Wing Installation	-	-	-	-	-	4.278	82.000	1	0.082	-	-	11.675	-	-	-	-	-	11.675
Other Recurring Prod (Software/Engineer)	-	-	30.410	-	-	19.260	-	-	27.061	-	-	30.553	-	-	-	-	-	30.553
Systems Engineering	-	-	15.759	-	-	5.344	-	-	3.074	-	-	4.036	-	-	-	-	-	4.036
Program Management	-	-	-	-	-	4.373	-	-	2.516	-	-	3.303	-	-	-	-	-	3.303
Systems Test and Evaluation	-	-	4.500	-	-	5.256	-	-	11.852	-	-	8.692	-	-	-	-	-	8.692
<i>Subtotal: Recurring Cost</i>	-	-	<i>176.395</i>	-	-	<i>49.061</i>	-	-	<i>54.535</i>	-	-	<i>64.259</i>	-	-	-	-	-	<i>64.259</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>176.395</i>	-	-	<i>49.061</i>	-	-	<i>54.535</i>	-	-	<i>64.259</i>	-	-	-	-	-	<i>64.259</i>
Support Cost																		
Training	-	-	2.127	-	-	0.932	-	-	2.300	-	-	2.850	-	-	-	-	-	2.850
Fielding	-	-	0.368	-	-	2.640	-	-	1.493	-	-	2.926	-	-	-	-	-	2.926
Other Modifications	-	-	0.595	-	-	13.023	-	-	2.073	-	-	8.313	-	-	-	-	-	8.313
CMWS Gen 3 ECU Hardware ^(†)	-	-	49.966	158.796	216	34.300	-	-	-	-	-	-	-	-	-	-	-	-
Other Procurement	-	-	-	-	-	3.065	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support Cost</i>	-	-	<i>53.056</i>	-	-	<i>53.960</i>	-	-	<i>5.866</i>	-	-	<i>14.089</i>	-	-	-	-	-	<i>14.089</i>
Gross/Weapon System Cost	-	-	229.451	-	-	103.021	-	-	60.401	-	-	78.348	-	-	-	-	-	78.348

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Exhibit P-5, Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: AZ3517 / CMWS	Item Number / Title [DODIC]: AZ3517 / CMWS
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	103.021	60.401	78.348	-	78.348
Total:	Quantity	-	-	-	-	-
Secondary Distribution	Total Obligation Authority	103.021	60.401	78.348	-	78.348

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: AZ3517 / CMWS	Item Number / Title [DODIC]: AZ3517 / CMWS
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
CMWS Gen 3 ECU Hardware ^(†)		2014	BAE Systems / Nashua, NH	SS / FFP	AMCOM Contracting Command, RSA	May 2014	Feb 2015	216	158.796			

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: AZ3517 / CMWS	Item Number / Title [DODIC]: AZ3517 / CMWS
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
CMWS Gen 3 ECU Hardware																															
	1	2014	ARMY (XVIII)	216	-	216									A	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
																						15	15	15	15	15	15	15	15	96	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10 **P-1 Line Item Number / Title:** AZ3517 / CMWS **Item Number / Title [DODIC]:** AZ3517 / CMWS

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016												Fiscal Year 2017													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016												Calendar Year 2017												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
CMWS Gen 3 ECU Hardware																															
	1	2014	ARMY (XVIII)	216	120	96	15	15	15	15	15	15	6																		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 10	P-1 Line Item Number / Title: AZ3517 / CMWS	Item Number / Title [DODIC]: AZ3517 / CMWS
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MFR Ref #	MFR Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	BAE Systems - Nashua, NH	24	600	1,000	-	3	9	12	-	3	9	12

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

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

Service/Agency Suffixes:

(XVIII) BASE

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

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

P-1 Line Item Number / Title:
AZ3000 / Avionics Support Equipment

ID Code (A=Service Ready, B=Not Service Ready) :		Program Elements for Code B Items:					Other Related Program Elements:					
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 (Units in Each)	12,637	845	820	721	-	721	725	712	120	106	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	93.902	6.809	6.847	6.937	-	6.937	7.070	7.092	1.978	1.983	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	93.902	6.809	6.847	6.937	-	6.937	7.070	7.092	1.978	1.983	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	93.902	6.809	6.847	6.937	-	6.937	7.070	7.092	1.978	1.983	Continuing	Continuing

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	7.431	8.058	8.350	9.621	-	9.621	9.752	9.961	16.483	18.708	Continuing	Continuing

Description:

The AN/AVS-6, Aviator's Night Vision Imaging System (ANVIS), supports the Army's objectives by permitting superior tactical mobility of rotary wing aircraft during darkness and low light conditions. The AN/AVS-6 also supports Fixed Wing Lift permitting loading/unloading and flight during darkness and low light conditions. The AN/AVS-6 is a binocular, helmet-mounted system for Aviation crew members. The AN/AVS-6(V)3 is a night vision goggle that significantly expands the input dynamic range to support operations in conditions that vary from below starlight illumination levels through strong urban lighting situations. The increased capability of the AN/AVS-6(V)3 yields enhanced mission performance and improved safety of flight, compared to what is now possible using previous AN/AVS-6 systems. The AN/AVS-6(V)3 enhances the survivability, lethality, and tactical mobility for aviators.

The Army Acquisition Objective (AAO) is 16,686.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	845	820	721	-	721	725	712	120	106
	Total Obligation Authority	6.809	6.847	6.937	-	6.937	7.070	7.092	1.978	1.983
Total:	Quantity	845	820	721	-	721	725	712	120	106
Secondary Distribution	Total Obligation Authority	6.809	6.847	6.937	-	6.937	7.070	7.092	1.978	1.983

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

Appropriation / Budget Activity / Budget Sub Activity:
 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

P-1 Line Item Number / Title:
 AZ3000 / Avionics Support Equipment

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
K35601 / ANVIS	P-5, P-5a, P-21	A	12,637 / 93.902	845 / 6.809	820 / 6.847	721 / 6.937	- / -	721 / 6.937
Total Gross/Weapon System Cost			12,637 / 93.902	845 / 6.809	820 / 6.847	721 / 6.937	- / -	721 / 6.937

*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:
 FY 2016 Base procurement dollars, in the amount of \$6.937 million, procures 721 AN/AVS-6(V)3 systems for fielding to Active Units.

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	P-1 Line Item Number / Title: AZ3000 / Avionics Support Equipment	Item Number / Title [DODIC]: K35601 / ANVIS

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	12,637	845	820	721	-	721
Gross/Weapon System Cost (\$ in Millions)	93.902	6.809	6.847	6.937	-	6.937
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	93.902	6.809	6.847	6.937	-	6.937
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	93.902	6.809	6.847	6.937	-	6.937

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	7.431	8.058	8.350	9.621	-	9.621

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
ANVIS ^(†)	6.800	12,056	81.980	6.511	845	5.502	6.723	820	5.513	7.798	721	5.622	-	-	-	7.798	721	5.622
Engineering Support	-	-	4.122	-	-	0.514	-	-	0.400	-	-	0.312	-	-	-	-	-	0.312
Project Management Admin	-	-	6.079	-	-	0.740	-	-	0.745	-	-	0.774	-	-	-	-	-	0.774
Engineering Change Orders	-	-	0.385	-	-	-	-	-	0.053	-	-	0.054	-	-	-	-	-	0.054
Fielding	-	-	1.335	-	-	0.053	-	-	0.136	-	-	0.175	-	-	-	-	-	0.175
<i>Subtotal: Recurring Cost</i>	-	-	93.902	-	-	6.809	-	-	6.847	-	-	6.937	-	-	-	-	-	6.937
<i>Subtotal: Flyaway Cost</i>	-	-	93.902	-	-	6.809	-	-	6.847	-	-	6.937	-	-	-	-	-	6.937
Gross/Weapon System Cost	7.431	12,637	93.902	8.058	845	6.809	8.350	820	6.847	9.621	721	6.937	-	-	-	9.621	721	6.937

Secondary Distribution	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	845	820	721	-	721
Total Obligation Authority	6.809	6.847	6.937	-	6.937
Total: Secondary Distribution	845	820	721	-	721
Total Obligation Authority	6.809	6.847	6.937	-	6.937

(†) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	P-1 Line Item Number / Title: AZ3000 / Avionics Support Equipment	Item Number / Title [DODIC]: K35601 / ANVIS
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
ANVIS ^(†)		2014	L-3 / Tempe, AZ	C / IDIQ	ACC APG	Mar 2014	Jun 2014	845	6.511	N		
ANVIS ^(†)		2015	L-3 / Tempe, AZ	C / IDIQ	ACC APG	Nov 2014	Feb 2015	820	6.723	N		
ANVIS ^(†)		2016	TBS / TBD	C / IDIQ	ACC/APG	Nov 2015	Feb 2016	721	7.798	N		

^(†) indicates the presence of a P-21

Remarks:

Each delivery order made under these contracts is competed among the 2 manufacturers on the basis of best cost, available schedule, and performance. Therefore, a determination of the quantity per manufacturer to be awarded to each is made after reviewing this information at the time of each delivery order.

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Exhibit P-21, Production Schedule: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	P-1 Line Item Number / Title: AZ3000 / Avionics Support Equipment	Item Number / Title [DODIC]: K35601 / ANVIS
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MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	L-3 - Tempe, AZ	25	125	250	4	5	3	8	4	2	3	5
2	TBS - TBD	25	125	250	4	5	3	8	4	2	3	5

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

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

Service/Agency Suffixes:

- (XIX) BASE
- (XX) BASE
- (XXI) BASE

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

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

P-1 Line Item Number / Title:
AZ3100 / Common Ground Equipment

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements: 0603801A, 0605830A				
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 (Units in Each)	-	13,650	5,531	1,012	-	1,012	1,145	1,049	736	514	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	1,068.890	45.999	29.231	64.867	-	64.867	64.447	71.285	63.008	62.471	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,068.890	45.999	29.231	64.867	-	64.867	64.447	71.285	63.008	62.471	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,068.890	45.999	29.231	64.867	-	64.867	64.447	71.285	63.008	62.471	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	3.370	5.285	64.098	-	64.098	56.286	67.955	85.609	121.539	Continuing	Continuing

Description:

Aviation Ground Support Equipment (AGSE) acquires, fields, and sustains aviation equipment within cost, schedule, and performance parameters, allowing the Joint War fighter to carry out peacetime and wartime missions. Systems managed by AGSE through its Life Cycle include Aircraft Cleaning and De-icing System, Aviation Ground Power Unit, Aviation Light Utility Mobile Maintenance Cart, Aviation Intermediate Maintenance (AVIM) Shop Sets, Aviation Unit Maintenance (AVUM) (A92), Modernized Maintenance Platforms, Common Aviation Tool System, Digital Flexible Engine Diagnostic System, Digital Aircraft Weighting Scale, Self-propelled Crane Aircraft Maintenance and Positioning (SCAMP II), Unit Maintenance Aerial Recovery Kit, and Non-Destructive Test Equipment. AGSE is critical to the operational readiness of Army Aviation Units. AGSE products provide the finest material and support solutions to Army Aviation.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	13,650	2,433	445	-	445	502	461	323	225
	Total Obligation Authority	45.999	11.737	31.268	-	31.268	31.014	34.433	30.216	29.947
ANG	Quantity	-	2,876	526	-	526	598	548	384	270
	Total Obligation Authority	-	16.225	30.331	-	30.331	30.222	33.301	29.614	29.422
AR	Quantity	-	222	41	-	41	45	40	29	19
	Total Obligation Authority	-	1.269	3.268	-	3.268	3.211	3.551	3.178	3.102
Total:	Quantity	13,650	5,531	1,012	-	1,012	1,145	1,049	736	514
Secondary Distribution	Total Obligation Authority	45.999	29.231	64.867	-	64.867	64.447	71.285	63.008	62.471

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

Appropriation / Budget Activity / Budget Sub Activity:
 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

P-1 Line Item Number / Title:
 AZ3100 / Common Ground Equipment

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0603801A, 0605830A

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)
AZ3520 / AVIATION GROUND SUPPORT EQUIPMENT	P-5		- / 1,068.890	13,650 / 45.999	5,531 / 29.231	1,012 / 64.867	- / -	1,012 / 64.867
Total Gross/Weapon System Cost			- / 1,068.890	13,650 / 45.999	5,531 / 29.231	1,012 / 64.867	- / -	1,012 / 64.867

*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:

FY 2016 Base procurement dollars in the amount of \$64.867 million supports and procures ground support equipment which supports the operational readiness of all Army aviation field units operating AH-64, UH-60, CH-47, OH-58D and other Army aircraft. AGSE provides a means to correct safety-of-flight discrepancies which endanger both life and property utilizing currently fielded test equipment. The Aircraft Cleaning and De-icing System provides aviation maintenance personnel with the capability to clean external and internal aircraft surfaces, aircraft engine flushing, and to conduct aircraft de-icing. The Self-propelled Crane Aircraft Maintenance and Positioning II provides lifting capabilities ranging from simple scheduled maintenance lifting on the flight line and other improved Aviation maintenance areas, to maintenance lifting required during contact maintenance and Downed Aircraft Recovery Team operations in unimproved environments. Digital Flexible Engine Diagnostic Systems provide Army Aviation maintainers with the capability to test rotary-wing engines off-wing after major repairs eliminating the risk of damaging airframes in the case of engine failures during test. Non-Destructive Test Equipment provides Army Aviation Maintainers with the capability to inspect aircraft components and structures for defects, corrosion, or foreign objects without complete disassembly or removal from the aircraft. The Aviation Light Utility Mobile Maintenance Cart will enhance mission performance of current forces by enhancing flexibility and maintainability of maintenance operations on the airfield and forward operating base. The Unit Maintenance Aerial Recover Kit provides capabilities to quickly rig disabled or crash damaged aircraft for aerial evacuation using standardized recovery procedures. The Modernized Maintenance Platforms provides a stable working platform for Army rotorcraft maintenance activities and enhances the occupational safety environment for maintainers. The Aviation Intermediate Maintenance Shop Set complex provides Class 7 shop sets in new or refurbished expandable International Standardization Organization shelters.

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.

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	P-1 Line Item Number / Title: AZ3100 / Common Ground Equipment	Item Number / Title [DODIC]: AZ3520 / AVIATION GROUND SUPPORT EQUIPMENT

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	-	13,650	5,531	1,012	-	1,012
Gross/Weapon System Cost (\$ in Millions)	1,068.890	45.999	29.231	64.867	-	64.867
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,068.890	45.999	29.231	64.867	-	64.867
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,068.890	45.999	29.231	64.867	-	64.867

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	3.370	5.285	64.098	-	64.098

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Aviation Cleaning Deicing System	-	-	-	-	-	-	-	-	-	53.135	52	2.763	-	-	-	53.135	52	2.763
Aviation Ground Power Unit	-	-	1,068.890	-	-	2.612	-	-	-	-	-	-	-	-	-	-	-	-
Avn Light Utility Mobile Maint	-	-	-	32.420	150	4.863	18.828	389	7.324	25.592	480	12.284	-	-	-	25.592	480	12.284
Avn Intermediate Maint Shop Sets	-	-	-	727.200	5	3.636	-	-	-	60.098	164	9.856	-	-	-	60.098	164	9.856
Modernized Maintenance Platforms	-	-	-	-	-	-	28.592	125	3.574	11.000	150	1.650	-	-	-	11.000	150	1.650
Common Aviation Tool System	-	-	-	1.385	13,493	18.689	2.060	5,016	10.335	22.000	26	0.572	-	-	-	22.000	26	0.572
Digital Flexible Engine Diagnostics Sys	-	-	-	5,451.000	2	10.902	5,299.000	1	5.299	14,042.000	1	14.042	-	-	-	14,042.000	1	14.042
Digital Aircraft Weighing Scale	-	-	-	-	-	1.412	-	-	-	-	-	-	-	-	-	-	-	-
SCAMP II Flight Line Type 1	-	-	-	-	-	-	-	-	-	407.913	23	9.382	-	-	-	407.913	23	9.382
SCAMP II Expeditionary Type 2	-	-	-	-	-	-	-	-	-	141.282	39	5.510	-	-	-	141.282	39	5.510
Unit Maint Aerial Recovery Kit	-	-	-	-	-	-	-	-	-	44.543	35	1.559	-	-	-	44.543	35	1.559

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Exhibit P-5, Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	P-1 Line Item Number / Title: AZ3100 / Common Ground Equipment	Item Number / Title [DODIC]: AZ3520 / AVIATION GROUND SUPPORT EQUIPMENT
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Non-Destructive Test Equipment	-	-	-	-	-	-	-	-	-	60.000	42	2.520	-	-	-	60.000	42	2.520
Program Management Support	-	-	-	-	-	3.885	-	-	2.699	-	-	4.729	-	-	-	-	-	4.729
<i>Subtotal: Recurring Cost</i>	-	-	1,068.890	-	-	45.998	-	-	29.229	-	-	64.867	-	-	-	-	-	64.867
<i>Subtotal: Flyaway Cost</i>	-	-	1,068.890	-	-	45.998	-	-	29.229	-	-	64.867	-	-	-	-	-	64.867
Gross/Weapon System Cost	-	-	1,068.890	3.370	13,650	45.999	5.285	5,531	29.231	64.098	1,012	64.867	-	-	-	64.098	1,012	64.867

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	13,650	2,433	445	-	445
	Total Obligation Authority	45.999	11.737	31.268	-	31.268
ANG	Quantity	-	2,876	526	-	526
	Total Obligation Authority	-	16.225	30.331	-	30.331
AR	Quantity	-	222	41	-	41
	Total Obligation Authority	-	1.269	3.268	-	3.268
Total: Secondary Distribution	Quantity	13,650	5,531	1,012	-	1,012
	Total Obligation Authority	45.999	29.231	64.867	-	64.867

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

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

P-1 Line Item Number / Title:
AZ3110 / Aircrew Integrated Systems

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0603827A, 0604601A

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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	156.755	45.841	48.081	44.085	-	44.085	48.441	47.380	47.374	50.136	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	156.755	45.841	48.081	44.085	-	44.085	48.441	47.380	47.374	50.136	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	156.755	45.841	48.081	44.085	-	44.085	48.441	47.380	47.374	50.136	Continuing	Continuing

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

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

Description:

Air Warrior survival and mission equipment improves the combat effectiveness of Army aircrew members. Components include Clothing and Individual Equipment; a Microclimate Cooling System; an Aircrew Integrated Helmet System; laser eye protection and chemical-biological protection; tailored body armor; overwater survival gear; survival, escape, and evasion tools; the Electronic Data Manager (EDM) which provides a digital moving map w/tactical overlays and an interface to Blue Force Tracking (BFT) in the form of a digital kneeboard; the Encrypted Aircraft Wireless Intercom System (EAWIS); a Portable Helicopter Oxygen Delivery System (PHODS) worn by the crewmember to safely conduct high altitude missions; a grab-and-go Survival Kit, Ready Access, Modular (SKRAM); and a Communication Enhancement/ Protection System (CEPS) that provides an external audio capability without the need to remove the flight helmet. The phased Air Warrior replacement is the Air Soldier System (Air SS), a systems-level approach to significantly reduce weight and bulk and enhance safety, survivability, mission duration, and situational awareness. The Air SS enhances situational awareness and safety through an improved helmet mounted display with three dimensional symbology for flight in Degraded Visual Environments (DVE). Select components of the Air Warrior program will be modified through Engineering Change Proposals (ECP) and integrated into the Air Soldier baseline. The Personnel Recovery Support System (PRSS) program includes the platform modification, integration, procurement, and fielding of interoperability systems to provide a significantly enhanced ability to respond to occurrences of isolated, missing, detained, or captured Soldiers.

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.

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

Appropriation / Budget Activity / Budget Sub Activity:
 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA
 30: Other Support

P-1 Line Item Number / Title:
 AZ3110 / Aircrew Integrated Systems

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0603827A, 0604601A

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)					
AZ3110 / Aircrew Integrated Systems	P-5, P-5a, P-21		- / 156.755	- / 45.841	- / 48.081	- / 44.085	- / -	- / 44.085
Total Gross/Weapon System Cost			- / 156.755	- / 45.841	- / 48.081	- / 44.085	- / -	- / 44.085

*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:
 FY2016 Base procurement dollars in the amount of \$44.085 million supports production and fielding of Air SS capability consisting of improved flight helmets; a Mission Display Module for UH-60L aviators; improved lightweight body armor; improved environmental protective clothing and personal survival equipment; and a day/night helmet-mounted display with head tracking and three dimensional DVE flight symbology for UH-60 and CH-47 aviators. These funds also procure Air Soldier platform-mounted components necessary for airframe interface with the Air Soldier; the integration of Air Warrior ECPs; and installation of airframe integration kits. FY2015 and beyond does not contain any Personnel Recovery Support System funding in this budget line.

Funding procures equipment and materiel to support a balanced investment strategy in support of the Army Acquisition Objective.

The FY16 funding request was reduced by \$3.010 million to account for the availability of prior year execution balances.

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Exhibit P-5, Cost Analysis: PB 2016 Army					Date: February 2015		
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30		P-1 Line Item Number / Title: AZ3110 / Aircrew Integrated Systems			Item Number / Title [DODIC]: AZ3110 / Aircrew Integrated Systems		
ID Code (A=Service Ready, B=Not Service Ready) :				MDAP/MAIS Code:			
Resource Summary		Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)		-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)		156.755	45.841	48.081	44.085	-	44.085
Less PY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)		156.755	45.841	48.081	44.085	-	44.085
Plus CY Advance Procurement (\$ in Millions)		-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)		156.755	45.841	48.081	44.085	-	44.085
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>							
Initial Spares (\$ in Millions)		-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)		-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
PRSS Platform Modifications	854.000	2	1.708	-	-	2.481	-	-	-	-	-	-	-	-	-	-	-	-
Air Warrior ECPs Supporting Air SS Rqmts	-	-	-	-	-	11.752	-	-	3.774	-	-	1.329	-	-	-	-	-	1.329
Air SS Soldier Kits ^(f)	-	-	-	10.542	448	4.723	11.077	1,677	18.576	11.207	1,347	15.096	-	-	-	11.207	1,347	15.096
Air SS Airframe Kits ^(f)	-	-	0.741	62.027	185	11.475	62.667	168	10.528	62.728	217	13.612	-	-	-	62.728	217	13.612
Airframe Kit Install	-	-	3.925	-	-	2.590	-	-	1.500	-	-	1.699	-	-	-	-	-	1.699
Manual	-	-	13.593	-	-	0.279	-	-	0.239	-	-	-	-	-	-	-	-	-
New Equipment Training	-	-	1.416	-	-	0.300	-	-	0.318	-	-	0.323	-	-	-	-	-	0.323
Initial Spares	-	-	5.311	-	-	1.748	-	-	1.554	-	-	1.431	-	-	-	-	-	1.431
Support Equipment	-	-	8.072	-	-	0.223	-	-	0.236	-	-	0.143	-	-	-	-	-	0.143
Systems Test and Evaluation	-	-	13.460	-	-	-	-	-	0.956	-	-	0.302	-	-	-	-	-	0.302
Nonrecurring Engineering (NRE)	-	-	26.166	-	-	3.074	-	-	2.603	-	-	0.485	-	-	-	-	-	0.485
PRSS Interoperability Engineering	-	-	57.970	-	-	1.400	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Changes	-	-	6.301	-	-	-	-	-	0.415	-	-	2.372	-	-	-	-	-	2.372
Systems Integration Engineering	-	-	5.214	-	-	0.300	-	-	0.318	-	-	0.412	-	-	-	-	-	0.412

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Exhibit P-5, Cost Analysis: PB 2016 Army												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30						P-1 Line Item Number / Title: AZ3110 / Aircrew Integrated Systems						Item Number / Title [DODIC]: AZ3110 / Aircrew Integrated Systems					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Program Management & Matrix Support	-	-	10.395	-	-	5.438	-	-	5.756	-	-	5.961	-	-	-	-	-	5.961
Total Package Fielding	0.437	2,740	1.197	-	-	0.058	-	-	0.062	-	-	0.096	-	-	-	-	-	0.096
Contract Logistics Support	0.469	2,742	1.287	-	-	-	-	-	1.246	-	-	0.824	-	-	-	-	-	0.824
<i>Subtotal: Recurring Cost</i>	-	-	156.755	-	-	45.841	-	-	48.081	-	-	44.085	-	-	-	-	-	44.085
<i>Subtotal: Flyaway Cost</i>	-	-	156.755	-	-	45.841	-	-	48.081	-	-	44.085	-	-	-	-	-	44.085
Gross/Weapon System Cost	-	-	156.755	-	-	45.841	-	-	48.081	-	-	44.085	-	-	-	-	-	44.085

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	P-1 Line Item Number / Title: AZ3110 / Aircrew Integrated Systems	Item Number / Title [DODIC]: AZ3110 / Aircrew Integrated Systems
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
Air SS Soldier Kits ^(†)		2014	Various / TBD	C / FFP	Redstone Arsenal, AL	Aug 2015	Dec 2015	448	10.542	N		
Air SS Soldier Kits ^(†)		2015	Various / TBD	C / FFP	Redstone Arsenal, AL	Aug 2015	Dec 2015	1,677	11.077			
Air SS Soldier Kits ^(†)		2016	Various / TBD	C / FFP	Redstone Arsenal, AL	Jan 2016	May 2016	1,347	11.207			
Air SS Airframe Kits ^(†)		2014	Various / TBD	C / FFP	Redstone Arsenal, AL	Aug 2015	Mar 2016	185	62.027	N		
Air SS Airframe Kits ^(†)		2015	Various / TBD	C / FFP	Redstone Arsenal, AL	Aug 2015	Mar 2016	168	62.667			
Air SS Airframe Kits ^(†)		2016	Various / TBD	C / FFP	Redstone Arsenal, AL	Jan 2016	Jul 2016	217	62.728			

^(†) indicates the presence of a P-21

Remarks:

Unit Cost changes across the years reflect the different mix of subsystem components procured each year.
\$2.481 million for PRSS Platform Modifications shown in FY14 was used for subject matter expert (SME) support in lieu of platform modifications.

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Exhibit P-21, Production Schedule: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	P-1 Line Item Number / Title: AZ3110 / Aircrew Integrated Systems	Item Number / Title [DODIC]: AZ3110 / Aircrew Integrated Systems
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017												Fiscal Year 2018													
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017												Calendar Year 2018												B A L
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Air SS Soldier Kits																															
	1	2014	ARMY	448	376	72	38	34																					-		
	1	2015	ARMY	1,677	1,405	272	142	130																					-		
	1	2016	ARMY	1,347	670	677	134	134	134	137	138																		-		
Air SS Airframe Kits																															
	2	2014	ARMY	185	124	61	20	20	21																				-		
	2	2015	ARMY	168	112	56	18	18	20																				-		
	2	2016	ARMY	217	60	157	20	20	30	40	47																		-		
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L

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Exhibit P-21, Production Schedule: PB 2016 Army	Date: February 2015
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Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	P-1 Line Item Number / Title: AZ3110 / Aircrew Integrated Systems	Item Number / Title [DODIC]: AZ3110 / Aircrew Integrated Systems
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MFR Ref #	MFR Name - Location	Production Rates (Each / Month)			Procurement Leadtime (Months)							
		MSR For 2016	1-8-5 For 2016	MAX For 2016	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Mfg PLT	Total After Oct 1
1	Various - TBD	50	400	1,000	6	19	4	23	2	3	4	7
2	Various - TBD	50	400	1,000	6	19	4	23	2	3	4	7

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

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

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

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

P-1 Line Item Number / Title:
AA0050 / Air Traffic Control

ID Code (A=Service Ready, B=Not Service Ready) :		Program Elements for Code B Items:					Other Related Program Elements: 0604633A					
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 (Units in Each)	-	6	14	21	-	21	35	36	34	37	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	1,154.588	94.192	127.232	94.545	-	94.545	96.825	114.541	99.819	64.178	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,154.588	94.192	127.232	94.545	-	94.545	96.825	114.541	99.819	64.178	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,154.588	94.192	127.232	94.545	-	94.545	96.825	114.541	99.819	64.178	Continuing	Continuing
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	15,698.667	9,088.000	4,502.143	-	4,502.143	2,766.429	3,181.694	2,935.853	1,734.541	Continuing	Continuing

Description:

Funds described herein support the acquisition of modernized tactical and fixed base Air Traffic Control (ATC) systems that will enable safety of aircraft operations. ATC systems are required to achieve or maintain compliance with civil, military, domestic and international air traffic control mandates and combat identification requirements. Efforts funded include the Tactical Airspace Integration System (TAIS), Air Traffic Navigation Integration and Coordination System (ATNAVICS), the Mobile Tower System (MOTS), the Tactical Terminal Control System (TTCS), the ATC Common Simulator (ACS), and Fixed Base systems, such as the DoD Advanced Automation System (DAAS), the Digital Airport Surveillance Radar (DASR), and other navigational control aids to include the Army Airfield Automation System (AAAS), National Air Space (NAS) voice switch and the radio replacement program.

TAIS, the Airspace Management System of the Army Mission Command System, performs Air Traffic Services (ATS) and Airspace Control (AC) at brigade and theater commands. TAIS Airspace Workstation (AWS) provides for AC planning and execution at the Brigade Combat Team and above. It is the Army's link to the Theater Battle Management Core System for Joint Airspace Management. TAIS and TAIS AWS provide an automated AC and ATS capability for current requirements and Battle Command interfaces. ATNAVICS provides all-weather instrument flight capabilities to include terminal, and radar precision approach and landing services to all Army, Joint, and Allied aircraft. The TTCS is a mobile ATC communications system that provides initial ATS at remote landing sites and drop zones. It enables secure ground-to-air and ground-to-ground communications between Army aircraft, other services and Allied aircraft, and ground stations. TTCS also provides aircraft separation and ground control capabilities, a meteorological measuring system for basic weather information, and precision location capability. MOTS provides ATC and aircraft separation for both air and ground operations at tactical or remote landing sites. It replaces the 1970's era 7A mobile tower system. MOTS capabilities include weather information, secure and anti-jam communications across all required frequency bands and ranges, and precision location. ATNAVICS, TAIS, TTCS, and MOTS serve as effective air traffic risk management tools for aviation safety during night, inclement weather, and combat operations. The ACS facilitates training and continued operator proficiency by incorporating the functionality of ATNAVICS, MOTS, and TAIS into a single simulator system. The ACS provides the ability to simulate start to finish ATC scenarios or any specific phase of ATC operations. Simulated ATC scenarios can include tower, radar and air traffic services operations with precise simulation of take-off/landing under both Visual Flight Rules (VFR) and Instrument Flight Rules (IFR), radar simulation for surveillance and precision approach, flight-following, airspace control and airspace deconfliction. Fixed Base ATC requirements (DAAS, DASR, AAAS, radio replacement program) will be met through a vast array of new technology solutions and pre-planned product improvement (P3I) of these systems, resulting in highly reliable and safe ATC systems in accordance with the Joint DoD/Federal Aviation Administration (FAA) program to modernize the NAS and the FAA Next Gen program.

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

Appropriation / Budget Activity / Budget Sub Activity:
 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

P-1 Line Item Number / Title:
 AA0050 / Air Traffic Control

ID Code (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** **Other Related Program Elements:** 0604633A

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	6	10	14	-	14	35	36	34	37
	Total Obligation Authority	94.192	98.314	72.277	-	72.277	96.825	114.541	99.819	64.178
ANG	Quantity	-	3	7	-	7	-	-	-	-
	Total Obligation Authority	-	27.836	22.268	-	22.268	-	-	-	-
AR	Quantity	-	1	-	-	-	-	-	-	-
	Total Obligation Authority	-	1.082	-	-	-	-	-	-	-
Total:	Quantity	6	14	21	-	21	35	36	34	37
Secondary Distribution	Total Obligation Authority	94.192	127.232	94.545	-	94.545	96.825	114.541	99.819	64.178

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

Appropriation / Budget Activity / Budget Sub Activity:
 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA
 30: Other Support

P-1 Line Item Number / Title:
 AA0050 / Air Traffic Control

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements: 0604633A		
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)
AA0050 / Air Traffic Control	P-5		- / 1,154.588	6 / 94.192	14 / 127.232	21 / 94.545	- / -	21 / 94.545
Total Gross/Weapon System Cost			- / 1,154.588	6 / 94.192	14 / 127.232	21 / 94.545	- / -	21 / 94.545

*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:
 FY 2016 Base procurement dollars in the amount of \$94.545 million provides for the acquisition of MOTS units and supports tactical and fixed base ATC systems including pre-planned product improvements (P3I). Funds for tactical ATC systems provide for upgrades and modifications to TAIS, ATNAVICS, TTCS, and MOTS. ATNAVICS upgrades will address interoperability and networking capabilities with the integration of the Tactical Operations Center Intercommunications System (TOCNET) and the ATC Network. ATNAVICS will also improve radio communications with the acquisition and installation of PRC-117G radios, and will upgrade Advanced Signal Data Processors and state of the art computers. These modifications will also allow the ATNAVICS to transmit critical air picture information to TAIS. TAIS funding provides for the implementation of interfaces to ATNAVICS and the Expanded Airtrack Sensor Integrator, TAIS AWS hardware/software refresh, and upgrade of the Mobile Server Unit. TTCS funding provides for the production and retrofit of a Universal Rack that accommodates vehicle uparmor requirements, provides initial issue spares, the integration of Blue Force Tracker 2 capabilities, and the initiation of efforts to integrate TOCNET. These modifications to tactical ATC systems ensure Army ATC and Army airspace command and control systems are capable of supporting the path ahead to the Future Force. Funding also procures MOTS units, along with engineering services and P3I for the procured units. ACS funding provides for the acquisition and installation of simulator hardware and software, as well as non-recurring engineering services required to integrate the ACS, and initial training. Fixed Base system funding replaces obsolete legacy transmitters and receivers with the Global Air-Traffic Management compatible CM-300 and AN/PRC-117G radios. Fixed Base funded efforts also include P3I for DAAS and DASR, upgrade to the NAS voice switch, AAAS hardware and software upgrades to accommodate changes to the Digital Automatic Terminal Information Service and the USAF Weather System Joint Environmental Toolkit. Fixed Base equipment quantities and configurations are tailored to meet specific site requirements, resulting in varying unit costs. Funding ensures compliance and interoperability between the Army, Joint, and FAA systems operating in the National Airspace System (NAS).

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.

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Exhibit P-5, Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30	P-1 Line Item Number / Title: AA0050 / Air Traffic Control	Item Number / Title [DODIC]: AA0050 / Air Traffic Control
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ID Code (A=Service Ready, B=Not Service Ready) : **MDAP/MAIS Code:**

Resource Summary	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Procurement Quantity (Units in Each)	-	6	14	21	-	21
Gross/Weapon System Cost (\$ in Millions)	1,154.588	94.192	127.232	94.545	-	94.545
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,154.588	94.192	127.232	94.545	-	94.545
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,154.588	94.192	127.232	94.545	-	94.545

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	15,698.667	9,088.000	4,502.143	-	4,502.143

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Flyaway Cost																		
Recurring Cost																		
Fixed Base Precision Approach Radar	-	-	91.260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DoD Advanced Automation System (DAAS)	-	-	90.202	-	-	7.507	-	-	4.044	-	-	2.789	-	-	-	-	-	2.789
Digital Airport Surveillance Radar (DASR)	-	-	84.005	-	-	0.158	-	-	3.419	-	-	3.469	-	-	-	-	-	3.469
Tactical Airspace Integration Sys (TAIS)	-	-	347.181	-	-	13.491	-	-	29.517	-	-	16.608	-	-	-	-	-	16.608
Air Traffic Navigation and Integration	384,345.000	1	384.345	-	-	5.742	-	-	18.528	-	-	12.398	-	-	-	-	-	12.398
Navigational Control Aids	-	-	31.815	-	-	7.346	-	-	10.578	-	-	14.075	-	-	-	-	-	14.075
Tactical Terminal Control System (TTCS)	-	-	42.877	-	-	7.452	-	-	7.630	-	-	3.021	-	-	-	-	-	3.021
Mobile Tower System (MOTS)	-	-	80.756	4,634.667	6	27.808	4,862.800	10	48.628	5,391.000	7	37.737	-	-	-	5,391.000	7	37.737
ATC Common Simulator (ACS)	-	-	2.147	-	-	24.688	-	-	4.888	-	-	4.448	-	-	-	-	-	4.448
<i>Subtotal: Recurring Cost</i>	-	-	<i>1,154.588</i>	-	-	<i>94.192</i>	-	-	<i>127.232</i>	-	-	<i>94.545</i>	-	-	-	-	-	<i>94.545</i>
<i>Subtotal: Flyaway Cost</i>	-	-	<i>1,154.588</i>	-	-	<i>94.192</i>	-	-	<i>127.232</i>	-	-	<i>94.545</i>	-	-	-	-	-	<i>94.545</i>

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Exhibit P-5, Cost Analysis: PB 2016 Army												Date: February 2015					
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30						P-1 Line Item Number / Title: AA0050 / Air Traffic Control						Item Number / Title [DODIC]: AA0050 / Air Traffic Control					
ID Code (A=Service Ready, B=Not Service Ready) :												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or add, due to rounding.

Cost Elements	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Gross/Weapon System Cost	-	-	1,154.588	15,698.667	6	94.192	9,088.000	14	127.232	4,502.143	21	94.545	-	-	-	4,502.143	21	94.545

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Army	Quantity	6	10	14	-	14
	Total Obligation Authority	94.192	98.314	72.277	-	72.277
ANG	Quantity	-	3	7	-	7
	Total Obligation Authority	-	27.836	22.268	-	22.268
AR	Quantity	-	1	-	-	-
	Total Obligation Authority	-	1.082	-	-	-
Total:	Quantity	6	14	21	-	21
Secondary Distribution	Total Obligation Authority	94.192	127.232	94.545	-	94.545

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

Appropriation / Budget Activity / Budget Sub Activity:
 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

P-1 Line Item Number / Title:
 AZ3300 / Industrial Facilities

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
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 (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	182.084	1.615	1.203	1.207	-	1.207	1.228	1.408	1.441	1.468	-	191.654
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	182.084	1.615	1.203	1.207	-	1.207	1.228	1.408	1.441	1.468	-	191.654
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	182.084	1.615	1.203	1.207	-	1.207	1.228	1.408	1.441	1.468	-	191.654
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

This program provides funding to the Army Test and Evaluation Command (ATEC) to establish, modernize, expand or replace test facilities used in production testing of Aircraft and Aircraft components. It sustains Army production test capabilities through upgrade and replacement of instrumentation and equipment that is technologically and/or economically obsolete. Modernization of test instrumentation and equipment provides increased automation and efficiencies, improved data quality and quantity and cost avoidances to Army Program Managers. Programmed funding will be used to upgrade or replace production test instrumentation and equipment at the Redstone Test Center (RTC), Huntsville, AL and Yuma Test Center (YTC), Yuma Proving Ground, AZ.

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

Appropriation / Budget Activity / Budget Sub Activity:
 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

P-1 Line Item Number / Title:
 AZ3300 / Industrial Facilities

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:			Other Related Program Elements:		
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)					
AA7700 / PROVISION OF INDUSTRIAL FACILITIES	P-40a		- / 182.084	- / 1.615	- / 1.203	- / 1.207	- / -	- / 1.207
Total Gross/Weapon System Cost			- / 182.084	- / 1.615	- / 1.203	- / 1.207	- / -	- / 1.207

*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:
 FY 2016 Base procurement dollars in the amount of \$1.207 million support the following: At RTC, procures new data acquisition equipment used to collect aircraft structural integrity data during extreme flight maneuvers to help predict catastrophic structure failures and provide life cycle fatigue estimates of aircraft components. At YTC, procures replacement aircraft instrumentation for the time-stamping, on-board recording and telemetering of data from standard data buses and sensors; and on-board recorders and telemetry equipment that can meet the environment and data speeds needed for production base aviation programs. Funding also procures high speed, high definition video cameras mounted on ground based Kineto Tracking Mounts used for video tracking of air armament systems and guided munitions, required for detailed engineering analysis of weapon system deployment and malfunction analysis.

The majority of the instrumentation being upgraded or replaced is obsolete and has met or exceeded its economic life. This instrumentation is required to ensure complete and accurate test data is collected and safety and environmental hazards are minimized. Benefits of this project include increased test efficiencies and decreased costs and risks to Army Program Managers.

All COMPO 1 Active

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2016 Army															Date: February 2015				
Appropriation / Budget Activity / Budget Sub Activity: 2031A / 04 / 30								P-1 Line Item Number / Title: AZ3300 / Industrial Facilities							Aggregated Items Title: Various				

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

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2014			FY 2015			FY 2016 Base			FY 2016 OCO			FY 2016 Total		
			Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
PROVISION OF INDUSTRIAL FACILITIES																				
AA7700 / PROVISION OF INDUSTRIAL FACILITIES			-	-	182.084	-	-	1.615	-	-	1.203	-	-	1.207	-	-	-	-	-	1.207
<i>Subtotal: PROVISION OF INDUSTRIAL FACILITIES</i>			-	-	182.084	-	-	1.615	-	-	1.203	-	-	1.207	-	-	-	-	-	1.207
Total			-	-	182.084	-	-	1.615	-	-	1.203	-	-	1.207	-	-	-	-	-	1.207

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

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

P-1 Line Item Number / Title:
A50100 / Launcher, 2.75 Rocket

ID Code (A=Service Ready, B=Not Service Ready) :			Program Elements for Code B Items:					Other Related Program Elements:				
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 (Units in Each)	997	273	211	219	-	219	224	292	292	443	-	2,951
Gross/Weapon System Cost (\$ in Millions)	82.445	2.877	2.931	3.102	-	3.102	3.082	3.941	3.947	5.262	-	107.587
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	82.445	2.877	2.931	3.102	-	3.102	3.082	3.941	3.947	5.262	-	107.587
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	82.445	2.877	2.931	3.102	-	3.102	3.082	3.941	3.947	5.262	-	107.587

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

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	82.693	10.538	13.891	14.164	-	14.164	13.759	13.497	13.517	11.878	-	36.458

Description:

The M261 19-tube analog launcher and the M260 7-tube analog launcher are used to fire 2.75 Inch Hydra 70 Rockets from the following platforms: AH-64 Apache, Kiowa Warrior, MH-60L Blackhawk and AJ-6J Helicopters. The analog launchers are non-repairable, yet durable enough to withstand at least 16 rocket firings per tube before being discarded. The empty weight of the M260 analog launcher is approximately 35 pounds and the empty weight of the M261 analog launcher is approximately 82 pounds. The analog launcher permits fuze-timing selections from the cockpit and will launch rockets using either the MK40 or the MK66 motors.

Secondary Distribution		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020
Army	Quantity	273	211	219	-	219	224	292	292	443
	Total Obligation Authority	2.877	2.931	3.102	-	3.102	3.082	3.941	3.947	5.262
Total: Secondary Distribution	Quantity	273	211	219	-	219	224	292	292	443
	Total Obligation Authority	2.877	2.931	3.102	-	3.102	3.082	3.941	3.947	5.262

Justification:

FY2016 procurement dollars in the amount of \$3.102 million supports the procurement of 219 M261 19-tube analog launcher for the AH-64 Apache, MH-60L Blackhawk, and AH-6J helicopters. Procurement replaces disposable launchers as a result of annual rocket firings for training and replenishes the limited issuable stockage that has been depleted below levels acceptable to support training and war reserve requirements of Active Army, Special Operations Forces and Reserve Components usage.

The procurement quantity decreases shown in FY15-20 are due to M260 analog launchers no longer being procured for the OH-58D Kiowa Warrior due to the Aviation Restructure Initiative.

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Exhibit P-40, Budget Line Item Justification: PB 2016 Army		Date: February 2015
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support		P-1 Line Item Number / Title: A50100 / Launcher, 2.75 Rocket
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Items:	Other Related Program Elements:
<p>"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."</p>		