# Department of Defense Fiscal Year (FY) 2014 President's Budget Submission

April 2013



# **Army**

Justification Book

Aircraft Procurement, Army

# AIRCRAFT PROCUREMENT, ARMY

# **Appropriation Language**

For construction, procurement, production, 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, \$5,024,387,000 to remain available for obligation until September 30, 2016.

# Department of the Army FY 2014 President's Budget Exhibit P-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

20 Mar 2013

Appropriation	FY 2012 (Base & OCO)	FY 2013 Base Request with CR Adj*	FY 2013 OCO Request with CR Adj*	Emergency Disaster Relief Act of 2013	FY 2013 Total Request with CR Adj*
Aircraft Procurement, Army	6,476,415	5,371,508	486,200		5,857,708
Total Department of the Army	6,476,415	5,371,508	486,200		5,857,708

P-IC: FY 2014 President's Budget (Published Version), as of March 20, 2013 at 15:32:23

<sup>\*</sup> Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

Department of the Army
FY 2014 President's Budget
Exhibit P-1 FY 2014 President's Budget
Total Obligational Authority
(Dollars in Thousands)

20 Mar 2013

Appropriation	FY 2014 Base
Aircraft Procurement, Army	5,024,387
Total Department of the Army	5,024,387

P-1C: FY 2014 President's Budget (Published Version), as of March 20, 2013 at 15:32:23

## Department of the Army FY 2014 President's Budget Exhibit P-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

20 Mar 2013

Appropriation: Aircraft Procurement, Army

Budget Activity	FY 2012 (Base & OCO)	FY 2013 Base Request with CR Adj*	FY 2013 OCO Request with CR Adj*	Emergency Disaster Relief Act of 2013	FY 2013 Total Request with CR Adj*
01. Aircraft	4,750,042	4,201,026	486,200		
02. Modification of Aircraft	1,284,711	1,276,743			4,687,226 1,276,743
04. Support Equipment and Facilities	441,662	375,960			375,960
20. Undistributed		-482,221			-482,221
Total Aircraft Procurement, Army	6,476,415	5,371,508	486,200		5,857,708

P-IC: FY 2014 President's Budget (Published Version), as of March 20, 2013 at 15:32:23

<sup>\*</sup> Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

# Department of the Army FY 2014 President's Budget Exhibit P-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

20 Mar 2013

Appropriation: Aircraft Procurement, Army

Budget Activity	FY 2014 Base
01. Aircraft	3,609,642
02. Modification of Aircraft	1,032,335
04. Support Equipment and Facilities	382,410
20. Undistributed	
Total Aircraft Procurement, Army	5,024,387

P-1C: FY 2014 President's Budget (Published Version), as of March 20, 2013 at 15:32:23

## Department of the Army FY 2014 President's Budget Exhibit P-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

20 Mar 2013

Appropriation: 2031A Aircraft Procurement, Army

Line No Item Nomenclature	Ident Code		_	Ba wi Quant		oco	Y 2013 Request h CR Adj* ty Cost	Emerge Disas Relief A 201 Quantity	ter ct of	Tot	FY 2013 al Request th CR Adj*	S e
Budget Activity 01: Aircraft				~ <b></b> -						Quant		- -
Fixed Wing												
1 Utility F/W Aircraft		2	14,572	2	18,639							
2 Aerial Common Sensor (ACS) (MIP)	A				20,003					2	18,639	Ŭ
3 MQ-1 UAV	A		550,798	19	518,088							U
4 RQ-11 (RAVEN)	A	1131	86,062	234	25,798					19	518,088	
Rotary					==,					234	25,798	U
5 Helicopter, Light Utility (LUH)	A	39	250,415	34	271,983							
6 AH-64 Apache Block IIIA Reman Less: Advance Procurement (PY)	A	27	(560,741) (-160,237)	40	(769,879) (-192,764)					34 40	271,983 (769,879) (-192,764)	U
			400,504		577,115							-
7 AH-64 Apache Block IIIA Reman Advance Procurement (CY)			192,764		107,707						577,115	
8 AH-64 Apache Block IIIB New Build Less: Advance Procurement (PY)	A			8	(258,256) (-104,263)	2	(71,000)			10	(329,256)	ប
					153,993		71,000				(-104,263)  224,993	_
9 AH-64 Apache Block IIIB New Build Advance Procurement (CY)			84,264		146 707						224,795	
10 Kiowa Warrior WRA	A	-	·		146,121						146,121	U
	A	1	112,800			16	183,900			16	183,900	U

P-1C: FY 2014 President's Budget (Published Version), as of March 20, 2013 at 15:32:23

<sup>\*</sup> Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level

# Department of the Army FY 2014 President's Budget Exhibit F-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

20 Mar 2013

Appropriation: 2031A Aircraft Procurement, Army

Line No Budg		Ident Code		Y 2014 Base ty Cost	8 e c
Fix	ed Wing				
1	Utility F/W Aircraft		1	19,730	U
2	Aerial Common Sensor (ACS) (MIP)	A	4	142,050	U
3	MQ-1 UAV	А	15	518,460	Ū
4	RQ-11 (RAVEN)	A		10,772	U
Rot	ary				
5	Helicopter, Light Utility (LUH)	A	10	96,227	U
6 1	MH-64 Apache Block IIIA Reman Less: Advance Procurement (PY)	A	42	(716,176) (-107,707) 	
7 1	AH-64 Apache Block IIIA Reman Advance Procurement (CY)			150,931	ū
8 7	H-64 Apache Block IIIB New Build ess: Advance Procurement (PY)	Α		(146,121) (-146,121)	
9 <i>I</i>	H-64 Apache Block IIIB New Build dvance Procurement (CY)				U
10 F	iowa Warrior WRA	Α			U

P-1C: FY 2014 President's Budget (Published Version), as of March 20, 2013 at 15:32:23

# Department of the Army FY 2014 President's Budget Exhibit P-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

20 Mar 2013

Appropriation: 2031A Aircraft Procurement, Army

Line No Item Nomenclature	Ident Code			Ва		oco	•	Emerge Disas Relief A 20: Quantity	ster Act of	Tot	-	est dj* Cost	e
11 UH-60 Blackhawk M Model (MYP) Less: Advance Procurement (PY)		89	(1,597,728) (-99,962)	59	(-197,892)		- 11	<b></b>	••	59	(1,304, (-197,		
			1,497,766		1,107,087						1,107,		•
12 UH-60 Blackhawk M Model (MYP) Advance Procurement (CY)			199,781		115,113							,113	TT.
13 CH-47 Helicopter Less: Advance Procurement (PY)	A	45	(1,305,718) (-66,358)	38	(-120,956)	б	(231,300)			44	(1,428, (-120,	,292)	U
			1,239,360		1,076,036		231,300				1,307,		Ů
14 CH-47 Helicopter Advance Procurement (CY)			120,956		83,346							, 336	17
Total Aircraft			4,750,042		4,201,026	•	486,200				4,687,		Ü
Budget Activity 02: Modification of Air  Modification of Aircraft	ccraft												
15 MQ-1 Payload - UAS	A		146,983		231,508						221	508	T7
16 Guardrail Mods (MIP)			27,575		16,272								
17 Multi Sensor AEN Recon (MIP)			61,162		4,294							272	
18 AH-64 Mods	A		329,929		178,805								
19 CH-47 Cargo Helicopter Mods (MYP)			69,012		39,135							805 1 135 1	
20 Utility/Cargo Airplane Mods			12,107		24,842							842	
21 Utility Helicopter Mods		97	74,745		73,804								
22 Kiowa Mods Warrior			92,552		192,484							804 1 484 1	
							•					-54 (	•

P-1C: FY 2014 President's Budget (Published Version), as of March 20, 2013 at 15:32:23

<sup>\*</sup> Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

# Department of the Army FY 2014 President's Budget Exhibit P-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

20 Mar 2013

Appropriation: 2031A Aircraft Procurement, Army

	Item Nomenclature	Ident Code		FY 201 Base ity		s e c
11 UH- Les	60 Blackhawk M Model (MYP) s: Advance Procurement (PY)		65	(-10	5,187) 8,211)	
12 UH-Adv	60 Blackhawk M Model (MYP) ance Procurement (CY)				6,976 6,001	tτ
13 CH-	47 Helicopter s: Advance Procurement (PY)	A	28	(884 (-83	4,996) 3,346)	U
	47 Helicopter ance Procurement (CY)			80:	1,650	
Total A	ircraft				3,376  9,642	U
	Activity 02: Modification of Airc	caft				
Modific	cation of Aircraft					
15 MQ-1	l Payload - UAS	A		97	7,781	U
16 Guar	rdrail Mods (MIP)			10	,262	Ų
17 Mult	ti Sensor ABN Recon (MIP)			12	,467	U
18 AH-6	54 Mods	A		53	,559	Ū
19 CH-4	47 Cargo Helicopter Mods (MYP)			149	764	ប
20 Util	lity/Cargo Airplane Mods			17	,500	U
21 Util	lity Helicopter Mods		167	74	,095	U
22 Kiow	wa Mods Warrior		3	184	,044	U

P-1C: FY 2014 President's Budget (Published Version), as of March 20, 2013 at 15:32:23

## Department of the Army FY 2014 President's Budget Exhibit P-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

20 Mar 2013

Appropriation: 2031A Aircraft Procurement, Army

Line No Item Nomenclature	Ident Code		-	FY 20 Base Re with Cr Quantity	equest	FY 20 OCO Req with CR Quantity	uest	Emerge Disas Relief A 201 Quantity	ster act of	FY 2013 Total Request with CR Adj* Quantity Cost	
23 Network and Mission Plan	А		118,432	j	190,789						-
24 Comms, Nav Surveillance	A		117,855		133,191					190,789	U
25 GATM Rollup	A		69,220		87,280					133,191	U
26 RQ-7 UAV MODS	A	4	165,139		.04,339					87,280	Ü
Total Modification of Aircraft			1,284,711				<b></b> -			104,339	
Budget Activity 04: Support Equipment a	and Facilit	ies	1,201,711	1,2	176,743					1,276,743	
Ground Support Avionics									•		
27 Aircraft Survivability Equipment			35,993		34,037						
28 Survivability CM										34,037	Ų
29 CMWS	A		104,251	1	27,751						U
Other Support					,					127,751	U
30 Avionics Support Equipment		568	4,840		4,886						
31 Common Ground Equipment			114,517		82,511					4,886	Ū
32 Aircrew Integrated Systems			62,746							82,511	U
33 Air Traffic Control					77,381					77,381	Ū
34 Industrial Facilities			114,844		47,235					47,235	Ū
			1,593		1,643					1,643	U
35 Launcher, 2.75 Rocket		449	2,878		516					516	U
Total Support Equipment and Facilities			441,662		75,960			<b>-</b>	- <b></b>	375,960	

P-1C: FY 2014 President's Budget (Published Version), as of March 20, 2013 at 15:32:23

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# Department of the Army FY 2014 President's Budget Exhibit P-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

20 Mar 2013

Appropriation: 2031A Aircraft Procurement, Army

Line No Item Nomenclature	Ident Code		Y 2014 Base ty Cost	s e c
23 Network and Mission Plan	A		152,569	U
24 Comms, Nav Surveillance	A		92,779	U
25 GATM Rollup	A		65,613	ŭ
26 RQ-7 UAV MODS	A		121,902	U
Total Modification of Aircraft			1,032,335	•
Budget Activity 04: Support Equipment an	d Faciliti	ies		
Ground Support Avionics				
27 Aircraft Survivability Equipment			47,610	U
28 Survivability CM			5,700	U
29 CMWs	A		126,869	U
Other Support				
30 Avionics Support Equipment		705	6,809	U
31 Common Ground Equipment			65,397	U
32 Aircrew Integrated Systems			45,841	U
33 Air Traffic Control			79,692	U
34 Industrial Facilities			1,615	U
35 Launcher, 2.75 Rocket			2,877	U
Total Support Equipment and Facilities			382,410	

P-1C: FY 2014 President's Budget (Published Version), as of March 20, 2013 at 15:32:23

## Department of the Army FY 2014 President's Budget Exhibit P-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

20 Mar 2013

Appropriation: 2031A Aircraft Procurement, Army

Line No Item Nomenclature Budget Activity 20: Undistributed	Ident Code	FY 2012 (Base & OCO) Quantity Cost	FY 2013  Base Request  with CR Adj*  Quantity Cost	FY 2013 OCO Request with CR Adj* Quantity Cost	Emergency Disaster Relief Act of 2013 Quantity Cost	FY 2013  Total Request S with CR Adj* e Quantity Cost c
Undistributed						
36 Adj to Match Continuing Resolution	A		-482,221			
Total Undistributed			-482,221			-482,221 U
Total Aircraft Procurement, Army		6,476,415	5,371,508	406 000		-482,221 
		, = , = , = = ,	3,3,1,506	486,200		5,857,708

P-1C: FY 2014 President's Budget (Published Version), as of March 20, 2013 at 15:32:23

<sup>\*</sup> Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.

# Department of the Army FY 2014 President's Budget Exhibit P-1 FY 2014 President's Budget Total Obligational Authority (Dollars in Thousands)

20 Mar 2013

Appropriation: 2031A Aircraft Procurement, Army

Line No	Item Nomenclature	Ident Code	FY 2014 Base Quantity Co	S e est c
Budget	Activity 20: Undistributed			
Undist	ributed			
36 Adj	to Match Continuing Resolution	A		บ
Total U	Indistributed			
Total A	Aircraft Procurement, Army		5,024,3	 87

P-1C: FY 2014 President's Budget (Published Version), as of March 20, 2013 at 15:32:23

Army • President's Budget Submission FY 2014 • Procurement

# **Table of Contents**

Line Item Table of Contents (by Appropriation then Line Number)
Line Item Table of Contents (Alphabetically by Line Item Title)
Exhibit P-40's

Army • President's Budget Submission FY 2014 • Procurement

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

## Appropriation 2031A: Aircraft Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
1	01	10	A11300	Fixed Wing Aircraft	1
2	01	10	A02005	Aerial Common Sensor (ACS) (MIP)	8
3	01	10	A00005	MQ-1 UAV	18
4	01	10	A00010	RQ-11 (RAVEN)	30
5	01	20	A05001	Helicopter, Light Utility (LUH)	38
6	01	20	A05111	AH-64 Apache Block IIIA Reman	46
7	01	20	A05111	AH-64 Apache Block IIIA Reman	54
8	01	20	A05133	AH-64 Apache Block IIIB New Build	
9	01	20	A05133	AH-64 Apache Block IIIB New Build	64
10	01	20	A02345	Kiowa Warrior WRA	
11	01	20	AA0005	UH-60 Blackhawk M Model (MYP)	76
12	01	20	AA0005	UH-60 Blackhawk M Model (MYP)	85
13	01	20	A05101	CH-47 Helicopter	89
14	01	20	A05101	CH-47 Helicopter	102

# Army • President's Budget Submission FY 2014 • Procurement

# Appropriation 2031A: Aircraft Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
15	02	10	A00020	MQ-1 Payload - UAS	106
16	02	10	AZ2000	Guardrail Mods (MIP)	117
17	02	10	AZ2001	Multi Sensor ABN Recon (MIP)	125
18	02	10	AA6605	AH-64 MODS	140
19	02	10	AA0252	CH-47 Cargo Helicopter Mods (MYP)	170
20	02	10	AA0270	Fixed Wing Mods	201
21	02	10	AA0480	Utility Helicopter Mods	206
22	02	10	AZ2200	Kiowa Mods Warrior	217
23	02	10	AA0712	Network And Mission Plan	229
24	02	10	AA0723	Comms, Nav Surveillance	243
25	02	10	AA0711	GATM Rollup	256
26	02	10	A00018	RQ-7 UAV MODS	277

# Army • President's Budget Submission FY 2014 • Procurement

# Appropriation 2031A: Aircraft Procurement, Army

Line #	ВА	BSA	Line Item Number	Line Item Title	Page
27	04	10	AZ3504	Aircraft Survivability Equipment	287
28	04	10	AZ3507	Survivability CM	295
29	04	10	AZ3517	CMWS	299
30	04	30	AZ3000	Avionics Support Equipment	308
31	04	30	AZ3100	Common Ground Equipment	315
32	04	30	AZ3110	Aircrew Integrated Systems	320
33	04	30	AA0050	Air Traffic Control	331
34	04	30	AZ3300	Industrial Facilities	337
35	04	30	A50100	Launcher, 2.75 Rocket	339

Army • President's Budget Submission FY 2014 • Procurement

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

Line Item Title	Line Item Number	Line #	ВА	BSA	Page
AH-64 Apache Block IIIA Reman	A05111	6	01	20	46
AH-64 Apache Block IIIA Reman	A05111	7	01	20	54
AH-64 Apache Block IIIB New Build	A05133	8	01	20	58
AH-64 Apache Block IIIB New Build	A05133	9	01	20	64
AH-64 MODS	AA6605	18	02	10	140
Aerial Common Sensor (ACS) (MIP)	A02005	2	01	10	8
Air Traffic Control	AA0050	33	04	30	331
Aircraft Survivability Equipment	AZ3504	27	04	10	287
Aircrew Integrated Systems	AZ3110	32	04	30	320
Avionics Support Equipment	AZ3000	30	04	30	308
CH-47 Cargo Helicopter Mods (MYP)	AA0252	19	02	10	170
CH-47 Helicopter	A05101	13	01	20	89
CH-47 Helicopter	A05101	14	01	20	102
CMWS	AZ3517	29	04	10	299
Common Ground Equipment	AZ3100	31	04	30	315
Comms, Nav Surveillance	AA0723	24	02	10	243
Fixed Wing Aircraft	A11300	1	01	10	1

**UNCLASSIFIED**Army • President's Budget Submission FY 2014 • Procurement

Line Item Title	Line Item Number	Line #	ВА	BSA	Page
Fixed Wing Mods	AA0270	20	02	10	201
GATM Rollup	AA0711	25	02	10	256
Guardrail Mods (MIP)	AZ2000	16	02	10	117
Helicopter, Light Utility (LUH)	A05001	5	01	20	38
Industrial Facilities	AZ3300	34	04	30	337
Kiowa Mods Warrior	AZ2200	22	02	10	217
Kiowa Warrior WRA	A02345	10	01	20	68
Launcher, 2.75 Rocket	A50100	35	04	30	339
MQ-1 Payload - UAS	A00020	15	02	10	106
MQ-1 UAV	A00005	3	01	10	18
Multi Sensor ABN Recon (MIP)	AZ2001	17	02	10	125
Network And Mission Plan	AA0712	23	02	10	229
RQ-11 (RAVEN)	A00010	4	01	10	30
RQ-7 UAV MODS	A00018	26	02	10	277
Survivability CM	AZ3507	28	04	10	295
UH-60 Blackhawk M Model (MYP)	AA0005	11	01	20	76
UH-60 Blackhawk M Model (MYP)	AA0005	12	01	20	85
Utility Helicopter Mods	AA0480	21	02	10	206

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

A11300 - Fixed Wing Aircraft

9.865.000

16.166.000

27.068.000

15,078.857 Continuing

Continuing

ID Code (A=Service Ready) : Program Elements for Code B Items: Other Related Program Elements: 0203744A

9.865.000

## MDAP/MAIS Code(s):

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	2	2	2	-	2	1	2	-	7	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	250.148	14.572	18.639	19.730	-	19.730	16.166	54.136	0.825	105.552	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	250.148	14.572	18.639	19.730	-	19.730	16.166	54.136	0.825	105.552	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	250.148	14.572	18.639	19.730	-	19.730	16.166	54.136	0.825	105.552	Continuing	Continuing
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

7.286.000

9.319.500

## **Description:**

(Units in Thousands)

Gross/Weapon System Unit Cost

The budget line covers 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, non-developmental fixed wing aircraft systems.

	Second	lary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
	Army	Quantity	2		2 2	-	2	1	2	-	7
İ		Total Obligation Authority	14.572	18.63	19.730	-	19.730	16.166	54.136	0.825	105.552
Г											

Item Sche	Item Schedule Prior Years			rs	FY 2012 FY 20			FY 2013	013 FY 2014 Base			FY 2014 OCO			FY 2014 Total		tal			
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
A11300 - Fixed Wing Aircraft	P5, P5A, P21		-	-	250.148	-	2	14.572	-	2	18.639	9,865.000	2	19.730	-	-	-	9,865.000	2	19.730
Total Gross/Weapon System Cost					250.148			14.572			18.639			19.730			-			19.730

<sup>\*\*\*</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army	Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing	A11300 - Fixed Wing Aircraft

ID Code (A=Service Ready, B=Not Service Ready): Program Elements for Code B Items: Other Related Program Elements: 0203744A

## MDAP/MAIS Code(s):

Item Sched	dule			FY 2015			FY 2016			FY 2017			FY 2018		To	Comple	te		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
A11300 - Fixed Wing Aircraft	P5, P5A, P21		-	-	-	-	-	-	-	-	-	-	-	-		Continuing			Continuing	
Total Gross/Weapon System Cost					16.166			54.136			0.825			105.552		Continuing			Continuing	

<sup>\*</sup>Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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

### Justification:

FY14 Base procurement dollars in the amount of \$19.730 million supports the procurement of (2) fixed wing aircraft (Aviation Test and Evaluation Command (ATEC) T-6 Joint Primary Aircraft Training System(JPATS) and associated military modifications and spares.

NOTE: FY14 quantity on P-40 is correct.

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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Page 2 of 7 P-1 Line #1

Exhibit P-5, Cost Analysis: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item Name, DODIC):

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

A11300 - Fixed Wing Aircraft

A11300 - Fixed Wing Aircraft

Prior			FY 2014	FY 2014	FY 2014					То	
Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
-	2	2	2	-	2	-	-	-	-	Continuing	Continuing
250.148	14.572	18.639	19.730	-	19.730	-	-	-	-	Continuing	Continuing
-	-	-	-	-	-	-	-	-	-	-	-
250.148	14.572	18.639	19.730	-	19.730	-	-	-	-	Continuing	Continuing
-	-	-	-	-	-	-	-	-	-	-	-
250.148	14.572	18.639	19.730	-	19.730	-	-	-	-	Continuing	Continuing
(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)	í		
	Years - 250.148 - 250.148 - 250.148	Years FY 2012  - 2 250.148 14.572  250.148 14.572  250.148 14.572	Years         FY 2012         FY 2013#           -         2         2           250.148         14.572         18.639           -         -         -           250.148         14.572         18.639           -         -         -           250.148         14.572         18.639	Years         FY 2012         FY 2013#         Base           -         2         2         2           250.148         14.572         18.639         19.730           -         -         -         -           250.148         14.572         18.639         19.730           -         -         -         -           250.148         14.572         18.639         19.730	Years         FY 2012         FY 2013#         Base         OCO##           -         2         2         2         -           250.148         14.572         18.639         19.730         -           -         -         -         -         -           250.148         14.572         18.639         19.730         -           -         -         -         -         -           250.148         14.572         18.639         19.730         -	Years         FY 2012         FY 2013#         Base         OCO##         Total           -         2         2         2         -         2           250.148         14.572         18.639         19.730         -         19.730           -         -         -         -         -         -           250.148         14.572         18.639         19.730         -         19.730           -         -         -         -         -         -           250.148         14.572         18.639         19.730         -         19.730	Years         FY 2012         FY 2013#         Base         OCO##         Total         FY 2015           -         2         2         2         -         2         -           250.148         14.572         18.639         19.730         -         19.730         -           -         -         -         -         -         -         -         -           250.148         14.572         18.639         19.730         -         19.730         -           250.148         14.572         18.639         19.730         -         19.730         -	Years         FY 2012         FY 2013#         Base         OCO##         Total         FY 2015         FY 2016           -         2         2         2         -         2         -         -           250.148         14.572         18.639         19.730         -         19.730         -         -           -         -         -         -         -         -         -         -           250.148         14.572         18.639         19.730         -         19.730         -         -           250.148         14.572         18.639         19.730         -         19.730         -         -	Years         FY 2012         FY 2013#         Base         OCO##         Total         FY 2015         FY 2016         FY 2017           -         2         2         2         -         2         -         -         -         -           250.148         14.572         18.639         19.730         -         19.730         -         -         -         -           250.148         14.572         18.639         19.730         -         19.730         -         -         -         -           -         -         -         -         -         -         -         -         -	Years         FY 2012         FY 2013#         Base         OCO##         Total         FY 2015         FY 2016         FY 2017         FY 2018           - 2         2         2         -         2         -	Years         FY 2012         FY 2013#         Base         OCO##         Total         FY 2015         FY 2016         FY 2017         FY 2018         Complete           - 2         2         2         -         2         -         -         -         -         Continuing           250.148         14.572         18.639         19.730         -         19.730         -         -         -         -         -         Continuing           250.148         14.572         18.639         19.730         -         19.730         -         -         -         -         -         Continuing           -         -         -         -         -         -         -         -         Continuing           -

	(The fellowing	g i tooodii oo odiiii	mary rows are re	ii iiii oiiii aa oii ai p	arpoods orny. Tr	io con coponani	, buugot roquoot	o aro accamonto	0.0011.0.0.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	-	7,286.000	9,319.500	9,865.000	-	9,865.000	-	-	-	-	Continuing	Continuing
(Units in Thousands)												

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

		Al	l Prior Yea	rs		FY 2012			FY 2013		F'	Y 2014 Bas	se	F'	Y 2014 OC	0	F'	Y 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																	,		
Recurring Cost																			
† Fixed Wing Aircraft Procurement		9,265.000	27	250.148	6,886.000	2	13.772	7,086.000	2	14.172	6,348.000	2	12.696	-	-	-	6,348.000	2	12.696
Engineering Change Proposal		-	-	-	-	-	-	-	-	-	865.000	2	1.730	-	-	-	865.000	2	1.730
Spares		-	-	-	-	-	-	-	-	-	670.000	2	1.339	-	-	-	670.000	2	1.339
Test & Evaluation		-	-	-	-	-	-	-	-	-	1,137.000	1	1.137	-	-	-	1,137.000	1	1.137
Program Management		-	-	-	-	-	-	-	-	-	1,438.000	1	1.438	-	-	-	1,438.000	1	1.438
Publication Tech Data		-	-	-	-	-	-	-	-	-	700.000	1	0.700	-	-	-	700.000	1	0.700
Airworthiness Release		-	-	-	-	-	-	-	-	-	345.000	2	0.690	-	-	-	345.000	2	0.690
Other		-	-	-	400.000	2	0.800	2,234.000	2	4.467	-	-	-	-	-	-	-	-	-
Total Recurring Cost				250.148			14.572			18.639			19.730			-			19.730
Total Flyaway Cost				250.148			14.572			18.639			19.730			-			19.730
Gross Weapon System Cost				250.148			14.572			18.639			19.730			-			19.730

Exhibit P-5, Cost Analysis: PB 2014 Army

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10:

Name, DODIC):

A11300 - Fixed Wing Aircraft

Date: April 2013

Fixed Wing

A11300 - Fixed Wing Aircraft

**Total Cost** FY 2015 **FY 2016** FY 2017 FY 2018 To Complete Total **Cost Elements** Total Total Total Total Total ID Unit Cost Quantity Unit Cost († indicates the Cost Unit Cost Quantity Cost Quantity Cost Unit Cost Quantity Cost Unit Cost Quantity Cost Unit Cost | Quantity Cost CD (\$ K) (Each) (Each) presence of a P-5A) (\$ M) (\$K) (Each) (\$ M) (Each) (\$ M) (\$K) (Each) (\$ M) (\$ K) (\$ M) (\$K) (Each) (\$ M) Flyaway Cost Recurring Cost † Fixed Wing Aircraft Procurement **Engineering Change** Proposal Spares Test & Evaluation ---------Program Management Publication Tech Data Airworthiness Release Other -Total Recurring Cost Total Flyaway Cost Gross Weapon System Continuing Continuing Cost

#### P-5 Remarks:

Secon	dary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	2	2	2	-	2	-	-	-	-
	Total Obligation Authority	14.572	18.639	19.730	-	19.730	_	-	-	-

LI A11300 - Fixed Wing Aircraft Army

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P-1 Line #1

Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10:
Fixed Wing

Date: April 2013

Item Nomenclature:
A11300 - Fixed Wing Aircraft

A11300 - Fixed Wing Aircraft

Cost Elements († indicates the presence of a P-21)	0 0	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn	RFP Issue Date
Fixed Wing Aircraft Procurement		2012	Hawker Beech / Wichita	C / FFP	Redstone Arsenal, AL	Oct 2012	Jun 2013	2	6,886.000	N		Feb 2012
†Fixed Wing Aircraft Procurement		2013	Hawker Beech / Wichita	C / FFP	Redstone Arsenal, AL	Jan 2013	Nov 2013	2	7,086.000	N		Feb 2012
†Fixed Wing Aircraft Procurement		2014	Hawker Beech / Wichita	C / FFP	Redstone Arsenal, AL	Jan 2014	Sep 2014	2	7,925.000	N		Feb 2012
Fixed Wing Aircraft Procurement		2014	TBD / TBD	C / FFP	Redstone Arsenal, AL	Sep 2013	Sep 2014	-	12,000.000	N		Mar 2013

Exhibit P-21, Budget Production Schedule: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10:

Fixed Wing

Date: April 2013

Item Nomenclature:

A11300 - Fixed Wing Aircraft

A11300 - Fixed Wing Aircraft

			Cost Eler (Units in I									Fiscal Y	ear 2013											Fiscal Y	ear 2014						
					ACCEP									C	alendar	Year 201	3								Calen	ndar Year	r <b>2014</b>				1
0 0	M F R	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	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	0 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
F	xed W	ing Airci	raft Procureme	ent											,					,					,						
	1	2013	ARMY	2	-	2	-	-	-	Α -	-	-	-	-	-	-	-	-	-	2											-
	1	2014	ARMY (I)	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	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	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	N N	n n	A U G	S E P	B A L

LI A11300 - Fixed Wing Aircraft Army

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Exhibit P-21, Budget Production Schedule: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10:	A11300 - Fixed Wing Aircraft	A11300 - Fixed Wing Aircraft
Fixed Wing		

		Product	tion Rates (Each /	Month)				Procurement Le	adtime (Months)					
						Init	ial			Reo	rder			
MF					ALT Prior Total After ALT Prior Total Afte									
#	MFR Name - Location	MSR	1-8-5	MAX	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1		
1	Hawker Beech - Wichita	1.00	4.00	4.00	-	12	8	20	-	3	8	11		

<sup>&</sup>quot;A" in the Delivery Schedule indicated the Contract Award Date.

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

## Service/Agency Suffixes:

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<sup>(</sup>I) Base

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

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

MDAP/MAIS Code(s):

. ,												
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	37	-	-	4	-	4	2	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	729.823	-	-	142.050	-	142.050	103.780	5.000	5.000	5.000	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	729.823	-	-	142.050	-	142.050	103.780	5.000	5.000	5.000	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	729.823	-	-	142.050	-	142.050	103.780	5.000	5.000	5.000	Continuing	Continuing
	(The following	g Resource Sum	mary rows are fo	or informational p	urposes only. Th	he corresponding	budget request	s are documente	ed elsewhere.)	•		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	19,724.946	-	-	35,512.500	-	35,512.500	51,890.000	-	-	-	Continuing	Continuing

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## **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 as a single platform 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' flexibility, endurance, sensor capability, communications architecture, and Processing, Exploitation & Dissemination (PED) support is relevant to the entire Find, Fix, Finish, Exploit, Analyze, and Disseminate (F3EAD) cycle.

Second	dary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	-	-	4	-	4	2	-	-	-

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

UNCLASSIFIED Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing A02005 - Aerial Common Sensor (ACS) (MIP) **Program Elements for Code B Items:** Other Related Program Elements: 0605626A ID Code (A=Service Ready, B=Not Service Ready) : MDAP/MAIS Code(s): FY 2014 **FY 2014** FY 2014 **Secondary Distribution** FY 2012 **FY 2013** Base oco Total FY 2015 FY 2016 **FY 2017 FY 2018 Total Obligation Authority** 142.050 142.050 103.780 5.000 5.000 5.000 FY 2012 FY 2013 FY 2014 Base **FY 2014 OCO** FY 2014 Total Item Schedule **Prior Years** ID **Unit Cost** Qty Total Cost Unit Cost Qty Total Cost **Unit Cost** Qty **Total Cost Unit Cost** Qty Total Cost **Unit Cost** Qty Total Cost **Unit Cost** Qty Total Cost CD (\$K) Item Nomenclature\* **Exhibits** (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (Each) (\$ M) (\$K) (Each) (\$ M) A02005 - Aerial Common P5. P5A. P21 19.724.946 729.823 35.512.500 142.050 35.512.500 142.050 Sensor (ACS) (MIP) Total Gross/Weapon 729.823 142.050 142.050 System Cost Item Schedule FY 2015 **FY 2016** FY 2017 FY 2018 To Complete Total ID **Unit Cost** Qty **Unit Cost** Qty Total Cost **Unit Cost** Total Cost Unit Cost **Total Cost Unit Cost** Qty Total Cost Unit Cost Total Cost Qty Total Cost Qty Qty CD Item Nomenclature\* **Exhibits** (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) P5, P5A, P21 A02005 - Aerial Common Continuing Continuing Sensor (ACS) (MIP) Total Gross/Weapon 103.780 5.000 5.000 5.000 Continuing Continuing System Cost \*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P40. Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding. Justification: FY14 Base procurement dollars in the amount of \$142.050 million supports purchasing four (4) Low Rate Initial Production (LRIP) systems including Government Furnished Equipment (GFE), training support, and initial spares. In addition, it brings four (4) EMARSS systems and a EMARSS Maintenance Vehicle (EMV) to production configuration. All COMPO 1 Active

LI A02005 - Aerial Common Sensor (ACS) (MIP) Army

Exhibit P-5, Cost Analysis: PB 2014 Army Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10:

A02005 - Aerial Common Sensor (ACS) (MIP) Name, DODIC):

A02005 - Aerial Common Sensor (ACS)

Date: April 2013

Fixed Wing

(MIP)

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	4	-	4	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	729.823	-	-	142.050	-	142.050	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	729.823	-	-	142.050	-	142.050	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	729.823	-	-	142.050	-	142.050	-	-	-	-	Continuing	Continuing

(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 (Units in Thousands)	19,724.946	-	-	35,512.500	-	35,512.500	-	-	-	-	Continuing	Continuing	

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

	All Prior Yea			or Years			FY 2012 FY 2013				F	Y 2014 Bas	FY 2014 OCO			FY 2014 Total			
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost														,					
Recurring Cost																			
† EMARSS LRIP Systems (4 Systems)		-	-	-	-	-	-	-	-	-	28,675.000	4	114.700	-	-	-	28,675.000	4	114.700
Productionize EMARSS Systems		-	-	-	-	-	-	-	-	-	-	-	3.300	-	-	-	-	-	3.300
Testing		-	-	-	-	-	-	-	-	-	-	-	1.300	-	-	-	-	-	1.300
ECPs		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Recurring Cost				-			-			-			119.300			-			119.300
Total Flyaway Cost				-			-			-			119.300			-			119.300
Hardware Cost														,					
Recurring Cost																			
Government Furnished Equipment (GFE)		-	-	-	-	-	-	-	-	-	-	-	8.900	-	-	-	-	-	8.900
EMARSS Maintenance Vehicle (EMV)		-	-	-	-	-	-	-	-	-	-	-	1.100	-	-	-	-	-	1.100
Total Recurring Cost				-			-			-			10.000			-			10.000
Total Hardware Cost				-			-			-			10.000			-			10.000
Software Cost	1 '																•		

Exhibit P-5, Cost Analysis: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: Item Nomenclature (Item Number - Item P-1 Line Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: A02005 - Aerial Common Sensor (ACS) (MIP) Name, DODIC): A02005 - Aerial Common Sensor (ACS) Fixed Wing (MIP) **All Prior Years** FY 2012 FY 2013 **FY 2014 Base FY 2014 OCO** FY 2014 Total Total Total Total Total Total Total **Cost Elements** ID Unit Cost († indicates the Quantity Cost **Unit Cost** Quantity Cost **Unit Cost** Quantity Cost Unit Cost | Quantity Cost **Unit Cost** Quantity Cost **Unit Cost** Quantity Cost CD presence of a P-5A) (\$ K) (Each) (\$ M) (\$K) (Each) (\$ M) Recurring Cost Software Licenses 2.550 2.550 2.550 2.550 Total Recurring Cost 2.550 2.550 Total Software Cost ---Logistics Cost Recurring Cost Initial Spares & 2.450 2.450 Repairs Data 0.500 0.500 Total Recurring Cost 2.950 2.950 Non Recurring Cost Training Spt / 5.000 5.000 Manuals / NET Total Non Recurring Cost 5.000 5.000 Total Logistics Cost 7.950 7.950 Support Cost 2.250 PMO / SETA Support 2.250 Interim Contractor Support & A/C CLS 2.250 2.250 Total Support Cost **Gross Weapon System** 729.823 142.050 142.050 Cost FY 2015 **FY 2016** FY 2017 **FY 2018** To Complete **Total Cost** Total **Cost Elements** Total Total Total Total Total ID Unit Cost Unit Cost Quantity Cost Unit Cost Quantity Cost Quantity Cost **Unit Cost** Quantity Cost **Unit Cost** Quantity Cost Unit Cost | Quantity Cost († indicates the CD (\$ M) presence of a P-5A) (\$ M) (\$ M) (Each) (\$ M) (\$K) (\$K) (Each) (\$K) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) Flyaway Cost Recurring Cost † EMARSS LRIP Systems (4 Systems) Productionize **EMARSS Systems** Testing \_ **ECPs** Total Recurring Cost ------Total Flyaway Cost

LI A02005 - Aerial Common Sensor (ACS) (MIP) Army

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P-1 Line #2

Exhibit P-5, Cost Analysis: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature (Item Number - Item 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: A02005 - Aerial Common Sensor (ACS) (MIP) Name, DODIC): Fixed Wing A02005 - Aerial Common Sensor (ACS) (MIP) FY 2015 **FY 2016** FY 2017 FY 2018 To Complete **Total Cost** Total Total **Cost Elements** Total Total Total Total ID Unit Cost Quantity († indicates the Quantity Cost **Unit Cost** Quantity Cost **Unit Cost** Quantity Cost **Unit Cost** Quantity Cost **Unit Cost** Cost Unit Cost Quantity Cost CD presence of a P-5A) (\$ K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$ K ) (Each) (\$ M) (\$K) (Each) (\$ M) Hardware Cost Recurring Cost Government Furnished Equipment (GFE) **EMARSS** Maintenance Vehicle (EMV) Total Recurring Cost -Total Hardware Cost -Software Cost Recurring Cost Software Licenses Total Recurring Cost -Total Software Cost Logistics Cost Recurring Cost Initial Spares & Repairs Total Recurring Cost Non Recurring Cost Training Spt / Manuals / NET Total Non Recurring Cost ---Total Logistics Cost -Support Cost PMO / SETA Support Interim Contractor Support & A/C CLS Total Support Cost **Gross Weapon System** Continuing Continuing Cost P-5 Remarks:

LI A02005 - Aerial Common Sensor (ACS) (MIP) Army UNCLASSIFIED
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P-1 Line #2

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing  P-1 Line Item Nomenclature: A02005 - Aerial Common Sensor (ACS) (MIP)  Item Nomenclature (Item Number - Item Name, DODIC): A02005 - Aerial Common Sensor (ACS) (MIP)	Exhibit P-5, Cost Analysis: PB 2014 Army	Date: April 2013	3
	2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10:	Name, DODIC): A02005 - Aerial	•

Sec	condary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	-	-	4	-	4	-	-	-	-
	Total Obligation Authority	-	-	142.050	-	142.050	-	-	-	-

Exhibit P-5A, Budget Procurement History and Planning: P	B 2014 Army			I	Date: April 2013		
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomen	clature:		I	tem Nomenclature	ə:	
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10:	A02005 - Aerial Comn	non Senso	r (ACS) (MI	P) /	402005 - Aerial Cor	mmon Sens	or (ACS)
Fixed Wing				(	(MIP)		
				Doto	Snaas		

	0						Date			Specs		
Cost Elements († indicates the presence of a P-21)	C O	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	of First Delivery	Qty (Each)	Unit Cost	Avail Now?	Date Revsn Avail	RFP Issue Date
†EMARSS LRIP Systems (4 Systems)		2014	Boeing Company / Ridley Park	C / FPIF	Aberdeen, MD	Jun 2014	Dec 2015	4	28,675.000	N		

Ex	hib	it P-	21, Bud	get P	rodu	ction	Sche	edule	: PB 2	2014 <i>A</i>	Army													Date	e: Apr	ril 201	3				
20	31/		tion / Bocraft Pro										<b>Line</b> 2005 -						(CS)	(MIP)					005 -		ature: Il Com		Senso	or (A(	CS)
			Cost Elen (Units in E									Fiscal \	ear 2014											Fiscal Y	ear 2015	j					
					ACCEP				_					(	Calendar	Year 20	14				_				Caler	ndar Yea	2015				
0 C 0	M F R #	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	0 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	J U	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
EM	ARSS	S LRIP S	Systems (4 Sy	stems)	,																								,		
	1	2014	ARMY	4	-	4	-	-	-	-	-	-	-	-	Α -	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	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	n n	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	N U	J U L	A U G	S E P	B A L

E	xhib	oit P-	21, Bud	lget F	Produ	ction	Sche	edule	PB 2	2014 <i>A</i>	١rmy													Dat	e: Apı	il 201	3				
2	031/		tion / B craft Pro													nencla mmor			ACS) (	MIP)									Sens	or (A	CS)
			Cost Elei (Units in									Fiscal \	ear 2016	1										Fiscal	ear 2017	,					
					ACCEP									(	Calendar	Year 20	16		•		_				Cale	ndar Yea	r 2017			_	
0 0		FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT		N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	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
Е	MARS	S LRIP S	Systems (4 Sy	ystems)																											
	1	2014	ARMY	4	4 -	4	-	-	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

Exhibit P-21, Budget Production Schedule: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing	A02005 - Aerial Common Sensor (ACS) (MIP)	Item Nomenclature: A02005 - Aerial Common Sensor (ACS) (MIP)

		Product	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
						Init	ial			Reo	rder	
MF	MFR Name - Location	MSR	1-8-5	MAX	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	Boeing Company - Ridley Park	3.00	3.00	6.00	-	9	18	27	-	-	-	-

<sup>&</sup>quot;A" in the Delivery Schedule indicated the Contract Award Date.

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

A00005 - MQ-1 UAV

ID Code (A=Service Ready, B=Not Service Ready): Program Elements for Code B Items: Other Related Program Elements: 0307204A, 0305219A

MDAP/MAIS Code(s):

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	55	29	19	15	-	15	15	-	-	-	-	133
Gross/Weapon System Cost (\$ in Millions)	895.501	550.798	518.088	518.460	-	518.460	232.321	1.000	14.000	100.334	-	2,830.502
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	895.501	550.798	518.088	518.460	-	518.460	232.321	1.000	14.000	100.334	-	2,830.502
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	895.501	550.798	518.088	518.460	-	518.460	232.321	1.000	14.000	100.334	-	2,830.502
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Ti	he corresponding	g budget request	s are documente	ed elsewhere.)	•		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	11.143	11.257	18.951	17.842	-	17.842	9.678	-	-	-	-	68.871
Gross/Weapon System Unit Cost	16,281.830	18,993.030	27,267.780	34,564.000	-	34,564.000	15,488.067	-	-	-	-	21.282

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **Description:**

(Units in Thousands)

Gray Eagle provides the Division Commander a dedicated, assured, multi-mission Unmanned Aircraft System (UAS) for the tactical fight assigned to Combat Aviation Brigade (CAB), Army Special Operations Aviation Command, (ARSOAC), and Aerial Exploitation Battalions (AEB) in support of the Division Fires, Battlefield Surveillance Brigades (BSB) and Brigade Combat Teams (BCT), based upon the Division Commander's priorities. Provides Reconnaissance, Surveillance, and Target Acquisition (RSTA), command and control, communications relay, Signals Intelligence (SIGINT), and battle damage assessment capability. The MQ-1C Gray Eagle UAS will be fielded to (15) units. A Gray Eagle unit consists of either 9 or 12 Aircraft and a Standard Equipment Package (SEP) and Payloads to include: Electro-Optical/ Infrared Laser Range Finder/Laser Designator (EO/IR/RF/LD), communication relay, and up to (4) HELLFIRE Missiles. The Combat Aviation Brigades (CAB) consist of Soldiers, (9) Aircraft, (5) Universal Ground Control Stations (UGCS), (6) Universal Ground Data Terminals (UGDT), (1) Mobile Ground Control Station (MGCS), (1) Satellite Communication (SATCOM) Ground Data Terminal (SGDT), (9) Satellite Airborne Data Terminals (SADT), (3) Automatic Take-off and Landing Systems (ATLS), and Ground Control Station (MGCS), (1) Satellite Communication (SATCOM) Ground Data Terminal (SGDT), (9) Satellite Airborne Data Terminals (SADT), (3) Automatic Take-off and Landing Systems (ATLS), and Ground Support Equipment (GSE). The number soldiers assigned to each of the AEB units will be determined upon issuance of the Force Design Update in the summer of 2013. The Army Special Operations Aviation Command (ARSOAC) units consist of Soldiers, (12) Aircraft, (6) Universal Ground Control Stations (UGCS), (7) Universal Ground Data Terminals (SGDT), (3) Mobile Ground Control Stations (MGCS), (3) Satellite Communication (SATCOM) Ground Data Terminals (SGDT), (12) Satellite Airborne Data Terminals (SGDT), (3) Automatic Take-off and Landing Systems (ATLS), and

The Army directed changes to the Gray Eagle fielding strategy that required changes to planned procurement quantities. Given the changed fielding strategy the FY 13 quantities for ground equipment only on this exhibit for FY13 do not match current plans.

This budget line also includes procurement of training devices, Ground Based Sense and Avoid (GBSAA), and new equipment training and fielding. GBSAA provides a solution to the "See and Avoid (SAA)" issues associated with gaining access to the National Airspace System (NAS) for UAS. GBSAA is a ground-based means of detecting airborne traffic and providing the necessary intelligence to the UAS, allowing it to "See and Avoid" as an alternate means of compliance with CFR Part 91.

LI A00005 - MQ-1 UAV
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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing	A00005 - MQ-1 UAV	

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

Program Elements for Code B Items: Oth	Other Related Program Elements: 0307204A, 0305219A
--	--

Item Sche	dule		P	rior Year	s		FY 2012			FY 2013		FY	2014 Ba	se	FY	2014 O	20	FY	2014 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cos
A00005 - MQ-1 UAV	P5, P5A, P21		16,281.830	55	895.501	-	29	550.798	-	19	518.088	34,564.000	15	518.460	-	-	-	34,564.000	15	518.460
Total Gross/Weapon System Cost					895.501			550.798			518.088			518.460			-			518.460
Item Sche	dule			FY 2015			FY 2016			FY 2017			FY 2018		To	Comple	te		Total	
	Υ																1			
Item Nomenclature*	Exhibits	CD	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	<b>Qty</b> (Each)	Total Cos (\$ M)
Item Nomenclature* A00005 - MQ-1 UAV	Exhibits P5, P5A, P21		Unit Cost																	(\$ M)

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P40.

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

#### Justification:

FY 2014 Gray Eagle Base funding of \$518.460 million procures (15) Aircraft, (8) Universal Ground Control Stations (UGCS), (12) Mobile Ground Control Stations (MGCS), (6) Automated Take Off and Landing Systems (ATLS), (8) Satellite Communications (SATCOM) Ground Data Terminals (SGDT), (12) Ka Satellite Communication (SATCOM) Ground Data Terminals (Ka SGDT), (18) Satellite Airborne Data Terminals (SADT), (36) Ka Satellite Communications (SATCOM) Airborne Data Terminals (Ka SADT), (6) lots of Ground Support Equipment (GSE), New Equipment Training (NET), Initial Spares, Training Devices and other ground support equipment. Funds also procure 4 sites of Ground Base Sense and Avoid (GBSAA) equipment.

All COMPO 1 Active

NOTE: FY12 quantity on P-40 is correct.

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Army

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P-1 Line #3

Exhibit P-5, Cost Analysis: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

A00005 - MQ-1 UAV

Item Nomenclature (Item Number - Item Name, DODIC):

A00005 - MQ-1 UAV

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	55	29	19	15	-	15	15	-	-	-	-	133
Gross/Weapon System Cost (\$ in Millions)	895.501	550.798	518.088	518.460	-	518.460	232.321	1.000	14.000	100.334	-	2,830.502
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	895.501	550.798	518.088	518.460	-	518.460	232.321	1.000	14.000	100.334	-	2,830.502
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	895.501	550.798	518.088	518.460	-	518.460	232.321	1.000	14.000	100.334	-	2,830.502
	(The following	Resource Sum	mary rows are fo	r informational p	ourposes only. Ti	he corresponding	g budget request	s are documente	ed elsewhere.)	•		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	16,281.830	18,993.030	27,267.780	34,564.000	-	34,564.000	15,488.067	-	-	-	-	21.282

<sup>#</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

		All	l Prior Yea	rs		FY 2012			FY 2013		F	/ 2014 Bas	se	F۱	/ 2014 OC	0	F	/ 2014 Tota	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost						,									,				
Recurring Cost																			
† Aircraft		4,406.000	55	242.347	4,206.000	29	121.964	5,286.000	19	100.429	5,396.000	15	80.944	-	-	-	5,396.000	15	80.94
Ground Control Station (GCS)		3,172.000	10	31.724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Portable Ground Control Station (PGCS)		1,128.000	4	4.511	631.000	6	3.785	942.000	4	3.768	-	-	-	-	-	-	-	-	-
Universal Ground Control Station (UGCS)		3,202.000	15	48.037	2,757.000	14	38.593	4,060.000	8	32.478	3,537.000	8	28.296	-	-	-	3,537.000	8	28.29
Ground Data Terminal (GDT)		1,229.000	14	17.207	-	-	-	2,871.000	8	22.969	-	-	-	-	-	-	-	-	-
Universal Ground Data Terminal (UGDT)		1,189.000	15	17.842	1,218.000	21	25.585	-	-	-	-	-	-	-	-	-	-	-	-
Portable Ground Data Terminal (PGDT)		379.000	4	1.517	-	-	-	2,034.000	4	8.137	-	-	-	-	-	-	-	-	-
Automatic Take-Off & Landing Sys (ATLS)		713.000	16	11.412	815.000	7	5.704	1,535.000	4	6.138	1,046.000	6	6.274	-	-	-	1,046.000	6	6.27
Satellite Ground Data Terminal (SGDT)		1,632.000	17	27.739	1,719.000	7	12.030	2,947.000	4	11.786	2,205.000	8	17.640	-	-	-	2,205.000	8	17.64
Ground Support Equipment Kits (GSE)		2,554.000	6	15.325	2,127.000	7	14.886	2,974.000	4	11.896	2,768.000	6	16.608	-	-	-	2,768.000	6	16.60

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Exhibit P-5, Cost Analysis: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

A00005 - MQ-1 UAV

Name, DODIC): A00005 - MQ-1 UAV

Date: April 2013

		All	Prior Yea	irs		FY 2012			FY 2013		F	/ 2014 Bas	se	F`	Y 2014 OCC	)	F	2014 Tota	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
KA SATCOM		-	-	-	-	-	-	-	-	-	3,169.000	12	38.028	-	-	-	3,169.000	12	38.02
KA SADT		-	-	-	-	-	-	-	-	-	522.000	36	18.792	-	-	-	522.000	36	18.79
Mobile GCS (MGCS)		-	-	-	-	-	-	-	-	-	1,425.000	12	17.100	-	-	-	1,425.000	12	17.10
Engineering Change Order		-	-	37.283	-	-	28.067	-	-	15.830	-	-	4.435	-	-	-	-	-	4.43
Non-Recurring Production		-	-	-	-	-	15.318	-	-	22.700	-	-	7.270	-	-	-	-	-	7.27
Initial Spares		8,499.000	9	76.491	11,572.000	7	81.005	-	-	66.231	-	-	31.630	-	-	-	-	-	31.63
Other Hardware		-	-	178.778	-	-	38.796	-	-	30.149	-	-	66.540	-	-	-	-	-	66.54
SATCOM Airborne Data Terminal(SADT)		471.000	47	22.144	448.000	29	12.980	-	-	-	574.000	18	10.337	-	-	-	574.000	18	10.33
Government Furnished Equipment (GFE)		-	-	6.355	-	-	17.635	-	-	11.775	-	-	9.797	-	-	-	-	-	9.79
Program Management		-	-	46.671	-	-	20.227	-	-	20.569	-	-	21.305	-	-	-	-	-	21.30
Test and Evaluation		-	-	22.474	-	-	17.968	-	-	18.746	-	-	16.768	-	-	-	-	-	16.76
Transportation		-	-	0.044	-	-	0.030	-	-	0.046	-	-	0.079	-	-	-	-	-	0.07
Operational Site Activation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Government Agencies		-	-	41.149	-	-	13.160	-	-	-	-	-	-	-	-	-	-	-	-
Software		-	-	0.800	-	-	16.810	-	-	13.956	-	-	19.178	-	-	-	-	-	19.17
Training Devices		-	-	15.958	-	-	43.290	-	-	45.422	-	-	16.505	-	-	-	-	-	16.50
NET Training		-	-	3.396	-	-	7.175	-	-	21.888	-	-	11.336	-	-	-	-	-	11.33
Support Equipment (Maint Shelter)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Modifications		-	-	26.297	-	-	7.900	-	-	15.494	-	-	65.417	-	-	-	-	-	65.41
Other Weapons System		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Base Sense and Avoid (GBSAA)		-	-	-	-	-	7.890	-	-	37.681	-	-	14.181	-	-	-	-	-	14.18
Total Recurring Cost				895.501			550.798			518.088			518.460			-			518.46
otal Flyaway Cost				895.501			550.798			518.088			518.460			-			518.46
ross Weapon System				895.501			550.798			518.088			518.460			-			518.46

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Exhibit P-5, Cost Analysis: PB 2014 Army

P-1 Line Item Nomenclature:

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

A00005 - MQ-1 UAV

Item Nomenclature (Item Number - Item

Name, DODIC): A00005 - MQ-1 UAV

Date: April 2013

Fixed Wing															100005 -	MQ-1	JAV		
			FY 2015			FY 2016			FY 2017			FY 2018		T	o Complete	9		Total Cost	
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost								,											
Recurring Cost																			
† Aircraft		5,493.000	15	82.401	-	-	-	-	-	-	-	-	-	-	-	-	24,787.000	133	628.0
Ground Control Station (GCS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,172.000	10	31.7
Portable Ground Control Station (PGCS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,701.000	14	12.0
Universal Ground Control Station (UGCS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,556.000	45	147.4
Ground Data Terminal (GDT)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,100.000	22	40.1
Universal Ground Data Terminal (UGDT)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,407.000	36	43.4
Portable Ground Data Terminal (PGDT)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,413.000	8	9.6
Automatic Take-Off & Landing Sys (ATLS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,109.000	33	29.5
Satellite Ground Data Terminal (SGDT)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,503.000	36	69.1
Ground Support Equipment Kits (GSE)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,423.000	23	58.7
KA SATCOM		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,169.000	12	38.0
KA SADT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	522.000	36	18.
Mobile GCS (MGCS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,425.000	12	17.
Engineering Change Order		-	-	4.580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90.
Non-Recurring Production		-	-	19.789	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65.
Initial Spares		-	-	21.466	-	-	-	-	-	-	-	-	-	-	-	-	20,071.000	16	276.
Other Hardware		-	-	16.504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	330.
SATCOM Airborne Data Terminal(SADT)		585.000	18	10.523	-	-	-	-	-	-	-	-	-	-	-	-	2,078.000	112	55.
Government Furnished Equipment (GFE)		-	-	4.197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49.
Program Management		-	-	21.689	-	-	-	-	-	0.352	-	-	-	-	-	-	-	-	130.8
Test and Evaluation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75.9
Transportation		-	-	0.048	-	-	0.654	-	-	-	-	-	-	-	-	-	-	-	0.9

LI A00005 - MQ-1 UAV Army UNCLASSIFIED
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Exhibit P-5, Cost Analysis: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

A00005 - MQ-1 UAV

Item Nomenclature (Item Number - Item Name, DODIC):
A00005 - MQ-1 UAV

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			FY 2015			FY 2016			FY 2017			FY 2018		Т	o Complete	Δ		Total Cost	
			1 1 2013			1 1 2010			1 1 2017			1 1 2010			Complete			Total Cost	1
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Operational Site Activation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Government Agencies		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.309
Software		-	-	14.571	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65.315
Training Devices		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	121.175
NET Training		-	-	26.181	-	-	0.346	-	-	7.973	-	-	-	-	-	-	-	-	78.295
Support Equipment (Maint Shelter)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Modifications		-	-	10.169	-	-	-	-	-	5.675	-	-	100.334	-	-	-	-	-	231.286
Other Weapons System		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ground Base Sense and Avoid (GBSAA)		-	-	0.203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59.955
Total Recurring Cost				232.321			1.000			14.000			100.334			-			2,830.502
Total Flyaway Cost				232.321			1.000			14.000			100.334			-			2,830.502
Gross Weapon System Cost				232.321			1.000			14.000			100.334			-			2,830.502

P-5 Remarks:

LI A00005 - MQ-1 UAV

Army

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P-1 Line #3

Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10:

P-1 Line Item Nomenclature:
A00005 - MQ-1 UAV

A00005 - MQ-1 UAV

Fixed Wing

Cost Elements († indicates the presence of a P-21)	000	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn	RFP Issue Date
†Aircraft		2011	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FPIF	AMCOM	Apr 2011	Jan 2013	29	4,046.000	Y		
†Aircraft		2012	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FPIF	AMCOM	Jul 2012	Apr 2014	29	4,206.000	Y		
†Aircraft		2013	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FFP	AMCOM	Jun 2013	May 2015	19	5,286.000	Y		
†Aircraft		2014	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FFP	AMCOM	Jun 2014	May 2016	15	5,396.000	Y		
†Aircraft		2015	GENERAL ATOMICS / ASI / SAN DIEGO	SS / FFP	AMCOM	Jun 2015	May 2017	15	5,493.000	Y		

LI A00005 - MQ-1 UAV
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Exhibit P-21, Budget Production Schedule: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: A00005 - MQ-1 UAV A00005 - MQ-1 UAV Fixed Wing Cost Elements (Units in Each) Fiscal Year 2011 Fiscal Year 2012 ACCEP Calendar Year 2012 Calendar Year 2011 PRIOR BAL М 0 C 0 В DUE 0 F TO 1 S PROC OCT AS OF С E Ε A R P R Ü U E C 0 V Е U U U E R 0 V A Y U A N Е A R Ρ A Y A L A N FY SERVICE<sup>‡</sup> QTY R G # 2010 1 OCT G Ν Aircraft All Prior Years Deliveries: 26 29 ARMY 29 A -29 2011 29 ARMY 29 29 1 2012 -----Α --1 ARMY (II) 19 -19 --------19 2013 15 1 2014 ARMY (III) 15 15 -15 ARMY (IV) 15

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LI A00005 - MQ-1 UAV Army F E

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Exhibit P-21, Budget Production Schedule: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: A00005 - MQ-1 UAV A00005 - MQ-1 UAV Fixed Wing Cost Elements (Units in Each) Fiscal Year 2013 Fiscal Year 2014 ACCEP Calendar Year 2013 Calendar Year 2014 PRIOR BAL М 0 C 0 В F DUE 0 TO 1 PROC OCT AS OF С E Ε A R P R Ü U E C 0 V Е Р U U U E R 0 V A Y U A N Е A R A L A N FY SERVICE<sup>‡</sup> QTY R N # 2012 1 OCT G Aircraft All Prior Years Deliveries: 26 29 2 2 2 ARMY 29 2 2 2 2 2 2 2011 29 ARMY 29 2 2 2 3 2 16 1 2012 -1 2013 ARMY (II) 19 -19 ---Α ---19 ARMY (III) 15 1 2014 15 15 Α -15 ARMY (IV) 15 D E A P J A U S E N O F E A P A U S E В Ū Ε U С Ε U Α A L R R Ĺ G Р N R R N G Р

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**UNCLASSIFIED** Exhibit P-21, Budget Production Schedule: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: A00005 - MQ-1 UAV A00005 - MQ-1 UAV Fixed Wing Cost Elements (Units in Each) Fiscal Year 2015 Fiscal Year 2016 ACCEP Calendar Year 2015 Calendar Year 2016 PRIOR BAL М 0 C 0 В F DUE A P R 0 TO 1 A U A U PROC OCT AS OF C E Ε A R Ü E C 0 V Е Р U U E R 0 V A N A Y U A N Е A R A L FY SERVICE<sup>‡</sup> QTY R Ν # 2014 1 OCT G Aircraft All Prior Years Deliveries: 26 29 ARMY 29 2011 29 13 2 ARMY 16 3 2 2 2 2 -1 2012 1 2013 ARMY (II) 19 19 -2 2 2 2 2 2 1 2014 ARMY (III) 15 15 15 15 ARMY (IV) Α -S E P В D E F E A P U J A U S E 0 N O D E F E A P U A U ŭ A R A Y A N A R A L R Ĺ G R G

LI A00005 - MQ-1 UAV
Army

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**UNCLASSIFIED** Exhibit P-21, Budget Production Schedule: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: A00005 - MQ-1 UAV A00005 - MQ-1 UAV Fixed Wing Cost Elements (Units in Each) Fiscal Year 2017 Fiscal Year 2018 ACCEP Calendar Year 2017 Calendar Year 2018 М PRIOR BAL 0 C 0 A P R В F DUE 0 TO 1 A U PROC OCT AS OF C E Ε A R Ü U E C 0 V Е Р U U E R 0 V A N A Y U A N Е A R A L FY SERVICE<sup>‡</sup> QTY 1 OCT R Ν G # 2016 G Aircraft All Prior Years Deliveries: 26 ARMY 29 29 2011 29 29 2012 ARMY 1 ARMY (II) 1 2013 19 19 ARMY (III) 1 2014 15 8 15 2 ARMY (IV) S E P В D E F E A P U J A U S 0 N O D E F E A P U U A U 0 A R A Y A R A Y A L R Ĺ G G

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Exhibit P-21, Budget Production Schedule: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10:	A00005 - MQ-1 UAV	A00005 - MQ-1 UAV
Fixed Wing		

		Product	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
						Init	ial			Reo	rder	
MFF	MFR Name - Location	MSR	1-8-5	MAX	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
- #						ALI Allei Oct i			10 001 1	ALI Allei Oct i		
1	GENERAL ATOMICS / ASI - SAN DIEGO	12.00	36.00	60.00	8	5	21	26	8	5	21	26

<sup>&</sup>quot;A" in the Delivery Schedule indicated the Contract Award Date.

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

#### Service/Agency Suffixes:

(II) BASE

(III) BASE

(IV) BASE

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Army

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P-1 Line #3

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

A00010 - RQ-11 (RAVEN)

ID Code (A=Service Ready, B=Not Service Ready): Program Elements for Code B Items: Other Related Program Elements: 0375204A, 0375232A

MDAP/MAIS Code(s):

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	oco##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	1,203	1,131	234	-	-	-	246	69	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	121.807	86.062	25.798	10.772	-	10.772	33.359	31.001	26.375	15.000	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	121.807	86.062	25.798	10.772	-	10.772	33.359	31.001	26.375	15.000	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	121.807	86.062	25.798	10.772	-	10.772	33.359	31.001	26.375	15.000	Continuing	Continuing
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	he corresponding	budget request	s are documente	ed elsewhere.)	1	1	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	0.048	0.072	0.108	-	-	-	0.132	0.444	-	-	Continuing	Continuing
Gross/Weapon System Unit Cost	101.253	76.094	110.248	-	-	-	135.606	449.290	-	-	Continuing	Continuing

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **Description:**

(Units in Thousands)

The Small Unmanned Aircraft Systems (SUAS) provides the battalion and below ground maneuver elements critical situational awareness and enhances force protection. 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 station. Other compatible receivers, such as the One System Remove Video Terminal and appropriately equipped manned platforms may also receive the SUAS products. A SUAS includes three hand-launched aircraft that do not require an improved launch/recovery location. In addition to the aircraft, the system contains ground control equipment, which includes an interoperable hand controller. This equipment is fully transportable in or on rucksack type packs that are organic to the unit.

This funding line includes procurement of SUAS aircraft, associated system ground support equipment, and initial spares. Starting in FY2013, funding is also included for retrofit of previously procured Raven aircraft with gimbaled payload, recently identified in Operation Enduring Freedom as a critical operational enabler. SUAS will procure two Gimbaled Payload Retrofits per three Raven aircraft. New equipment training and fielding logistics, and program management costs are also included. The FY2012 Production buy of Raven air vehicles included the gimbaled payload.

"In accordance with Section 1815 of the FY2008 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 defense missions, domestic emergency responses, and providing military support to civil authorities."

Seco	ondary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	1,131	143	-	-	-	150	42	-	-
	Total Obligation Authority	86.062	15.747	10.772	-	10.772	20.349	18.911	26.375	15.000

LI A00010 - RQ-11 (RAVEN) UNCLASSIFIED

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item J Appropriation / Budget Act 2031A: Aircraft Procurement, ID Code (A=Service Ready, B=Not Service R MDAP/MAIS Code(s):  Secondary Distribution  ANG Quantity Total Obligation Authority Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Nomenclature P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may r Justification: FY2014 Raven Base funding of \$1	ivity Arm  in i	FY 2012  P Unit Cost (\$K) 101.253	t Sub A	FY 2013  Total Cost (\$ M)	73 8.041 18 2.010	FY 201 Base	s for Cod	A	00010 - s:		I	1)	15	ı	16	2013 nts: 03752 FY 20			2018
2031A: Aircraft Procurement, ID Code (A=Service Ready, B=Not Service R MDAP/MAIS Code(s):  Secondary Distribution  ANG Quantity Total Obligation Authority Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may r  Justification:	Arm eady):	FY 2012  Punit Cost (\$ K) 101.253	1: Aircra	FY 2013  Total Cost (\$ M )	3 73 8.041 18 2.010	FY 201 Base	s for Cod	A(le B Items	00010 - s:	FY 20°	(RAVEN	Oth	15		16				2018
Secondary Distribution  ANG Quantity Total Obligation Authority  AR Quantity Total Obligation Authority  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may r  Justification:	ID	Unit Cost (\$ K) 101.253	- - rior Year	FY 2013  rs  Total Cost (\$ M )	73 8.041 18 2.010	FY 201 Base		FY 201	4		ļ _	<u> </u>	15		16				2018
Secondary Distribution  ANG Quantity Total Obligation Authority  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Nomenclature* Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may r  Justification:	ID	Unit Cost (\$ K) 101.253	- - rior Year	Total Cost	73 8.041 18 2.010	Base					ļ _	<u> </u>	15		16				2018
ANG Quantity Total Obligation Authority  AR Quantity Total Obligation Authority  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Schedule  Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may represents  Justification:	ID	Unit Cost (\$ K) 101.253	- - rior Year	Total Cost	73 8.041 18 2.010	Base					ļ _	FY 20		FY 20		FY 2	017	FY 2	2018
ANG Quantity Total Obligation Authority  AR Quantity Total Obligation Authority  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Schedule  Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may represents  Justification:	ID	Unit Cost (\$ K) 101.253	- - rior Year	Total Cost	73 8.041 18 2.010	Base					ļ _	FY 20		FY 20		FY 2	017	FY 2	2018
Total Obligation Authority  AR Quantity Total Obligation Authority  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature* represents Item Num Note: Totals in this Exhibit P-40 set may represents  Justification:	ID	Unit Cost (\$ K) 101.253	- - rior Year	Total Cost	8.041 18 2.010		-		-		_								
AR Quantity Total Obligation Authority  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may represents  Justification:	ID	Unit Cost (\$ K) 101.253	- rior Year	Total Cost	18 2.010								76		21		-		-
Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature* Item Nomenclature* Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num  Note: Totals in this Exhibit P-40 set may represents Item Num  Justification:	ID	Unit Cost (\$ K) 101.253	rior Year	Total Cost	2.010		-		-		-		10.341		9.610		-		-
Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may r  Justification:	ID	Unit Cost (\$ K) 101.253	rior Year	Total Cost		,			-		-		20		6		-		-
Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may r  Justification:	CE	Unit Cost (\$ K) 101.253	Qty	Total Cost			-		-		-		2.669		2.480		-		-
A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may r  Justification:	CE	(\$ K) 101.253		(\$ M)	11-14 04	FY 2012	1		FY 2013	1	FY	2014 Ba	se	FY	2014 O	co	FY	2014 To	tal
Total Gross/Weapon System Cost  Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may r  Justification:			-		(\$K)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)
Item Schedule  Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may r  Justification:				121.807	-	1,131	86.062	-	234	25.798	-	-	10.772	-	-	-	-	-	10.772
Item Nomenclature* Exhibits  A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may r  Justification:				121.807			86.062			25.798			10.772			-			10.772
A00010 - RQ-11 (RAVEN) P5, P5A, P21  Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may r  Justification:		<del>                                     </del>	FY 2015			FY 2016			FY 2017			FY 2018		То	Comple	te		Total	
Total Gross/Weapon System Cost  *Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may r  Justification:	CE		Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
*Item Nomenclature represents Item Num Note: Totals in this Exhibit P-40 set may r Justification:		-	-	-	-	-	-	-	-	-	-	-	-		Continuing			Continuing	
Note: Totals in this Exhibit P-40 set may r Justification:				33.359			31.001			26.375			15.000		Continuing	ı		Continuing	ı
Justification:	ber, D	ODIC, and It	em Name	for the P40	A and P5;	Name for t	he P18 and	P23; Mod	ification Nu	umber and	Modification	Title for t	he P3A; Ite	m Number	and Item	Name for th	e P10.		,
	ot be e	xact or add	due to rou	ınding.															
	0.772	million will	procure	103 Gimb	oaled Pay	load Retr	ofits, NET	Training,	Program	Manager	nent, Engi	neering a	and Logist	tics Suppo	ort.				

LI A00010 - RQ-11 (RAVEN) Army

Exhibit P-5, Cost Analysis: PB 2014 Army

Fixed Wina

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10:

P-1 Line Item Nomenclature:

A00010 - RQ-11 (RAVEN)

Item Nomenclature (Item Number - Item

Name, DODIC):

Date: April 2013

A00010 - RQ-11 (RAVEN)

g									7 1000 10		,	
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	1,131	234	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	121.807	86.062	25.798	10.772	-	10.772	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	121.807	86.062	25.798	10.772	-	10.772	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	121.807	86.062	25.798	10.772	-	10.772	-	-	-	-	Continuing	Continuing
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Ti	ne corresponding	g budget request	ts are documente	ed elsewhere.)	•		•
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	101.253	76.094	110.248	-	-	-	-	-	-	-	Continuing	Continuing

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

		All	Prior Yea	rs		FY 2012			FY 2013		F'	Y 2014 Bas	se	F	Y 2014 OC	0	F'	Y 2014 Tot	:al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)															
Flyaway Cost																			
Recurring Cost																			
† Air Vehicles		20.374	1,290	26.283	34.512	1,131	39.033	34.526	234	8.079	-	-	-	-	-	-	-	-	-
Initial Spares Package (ISP)		-	-	6.745	-	-	9.991	-	-	2.021	-	-	-	-	-	-	-	-	-
Other System Hardware		-	-	-	-	-	22.620	-	-	4.982	-	-	-	-	-	-	-	-	-
Digital Data Link Retrofit		59.972	930	55.774	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gimbal Payload Retrofit		-	-	-	-	-	-	30.600	5	0.153	31.204	103	3.214	-	-	-	31.204	103	3.21
Operator Training		-	-	13.546	-	-	2.220	-	-	0.397	-	-	0.208	-	-	-	-	-	0.20
Engineering Change Orders		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUMA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Government Furnished Equipment (GFE)		-	-	4.070	-	-	2.752	-	-	0.543	-	-	-	-	-	-	-	-	-
Program Management		-	-	5.740	-	-	4.679	-	-	4.449	-	-	2.290	-	-	-	-	-	2.29
Technical		-	-	5.200	-	-	2.154	-	-	2.354	-	-	2.550	-	-	-	-	-	2.55
Logistics		-	-	4.449	-	-	2.613	-	-	2.820	-	-	2.510	-	-	-	-	-	2.51
Total Recurring Cost				121.807			86.062			25.798			10.772			-			10.77

LI A00010 - RQ-11 (RAVEN) Army UNCLASSIFIED
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P-1 Line #4

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								UN	CLASS	IFIED									
Exhibit P-5, Cos	t Ar	nalysis:	PB 2014	Army											Date: Ap	ril 2013			
Appropriation / I 2031A: Aircraft P Fixed Wing							1		Nomenc 1 (RAVE						Item Nor Name, D A00010 -	ODIC):	•		er - Item
		Al	Prior Yea	ars		FY 2012	1		FY 2013		F	Y 2014 Bas	se .	F	Y 2014 OC	0	F	Y 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost	Unit Cost	Quantity (Each)	Total Cost
Total Flyaway Cost				121.807			86.062			25.798			10.772			-			10.77
Gross Weapon System Cost				121.807			86.062			25.798			10.772			-			10.77
			FY 2015			FY 2016			FY 2017			FY 2018		Т	o Complet	e		Total Cost	<u> </u>
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost	_			ı															1
† Air Vehicles		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Initial Spares Package (ISP)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other System Hardware		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Digital Data Link Retrofit		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gimbal Payload Retrofit		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operator Training	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Change Orders		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUMA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Government Furnished Equipment (GFE)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Technical		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Logistics		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Recurring Cost				-			-			-			-			-			-
Total Flyaway Cost	_			-			-			-			-			-			-
Gross Weapon System Cost				-			-			-			-		Continuing			Continuing	
P-5 Remarks:																			
Secondary Dis	trib	ution	FY	2012	FY 2	2013	FY 20 Bas		FY 2014 OCO	4	FY 2014 Total		FY 2015		FY 2016	F	Y 2017	FY	2018
Army Quantity		-		1,131		143		-		-		-		-	-		-		-

LI A00010 - RQ-11 (RAVEN) Army

**UNCLASSIFIED** Page 4 of 8

Exhibit P-5, Cost Analysis: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10:
Fixed Wing

P-1 Line Item Nomenclature:

A00010 - RQ-11 (RAVEN)

Date: April 2013

Item Nomenclature (Item Number - Item Name, DODIC):
A00010 - RQ-11 (RAVEN)

	•			FY 2014	FY 2014	FY 2014				
Secon	ndary Distribution	FY 2012	FY 2013	Base	oco	Total	FY 2015	FY 2016	FY 2017	FY 2018
	Total Obligation Authority	86.062	15.747	10.772	-	10.772	-	-	-	-
ANG	Quantity	-	73	-	-	-	-	-	-	-
	Total Obligation Authority	-	8.041	-	-	-	-	-	-	-
AR	Quantity	-	18	-	-	-	-	-	-	-
	Total Obligation Authority	-	2.010	-	-	-	-	-	-	-

LI A00010 - RQ-11 (RAVEN) Army UNCLASSIFIED
Page 5 of 8

Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: A00010 - RQ-11 (RAVEN)

Fixed Wing

Cost Elements († indicates the presence of a P-21)	0 0	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revsn	RFP Issue Date
†Air Vehicles		2012	Aero Vironment / Simi Valley	SS / FFP	AMCOM	May 2012	Jul 2012	1,131	34.512	Υ		
†Air Vehicles		2013	Aero Vironment / Simi Valley	SS / FFP	AMCOM	Mar 2013	May 2013	234	34.526	Υ		

#### Remarks:

The FY2012 award date is anticipated for March 2013 to incorporate additional OCO funding appropriated. Due to the short production runs this change does not impact the schedule for future award.

The FY2013 Raven hardware procurement will be made through a Delivery Order under the Competitive Multi-award IDIQ Contract. The current listed vendor may change. Five vendors were awarded the contract and vendor name will be determined with the award of the Delivery Order.

The FY2014 Raven hardware procurement will be made through a Delivery Order under the Competitive Multi-award IDIQ Contract. Contract vendor is to be determined.

LI A00010 - RQ-11 (RAVEN)

Army

UNCLASSIFIED

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Exhibit P-21, Budget Production Schedule: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10:
Fixed Wing

Date: April 2013

Item Nomenclature:
A00010 - RQ-11 (RAVEN)

			Cost Eler (Units in I									Fiscal Y	ear 2012											Fiscal Ye	ear 2013						
					ACCEP									C	alendar	Year 201	2								Calen	dar Year	2013				
0 0	M F R	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	0 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	J J	A U G	S E P	B A L
Ai	Vehic	cles	'								,					,		,													
	1	2012	ARMY	1,131	-	1,131	-	-				-	-	Α -	-	90	90	90	90	90	90	90	90	90	90	90	90	51	1		-
	1	2013	ARMY (V)	234	-	234	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Α -	-	46	46	46	46	50	-
						-	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 J	A U G	S E P	B A L

LI A00010 - RQ-11 (RAVEN) Army UNCLASSIFIED
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Exhibit P-21, Budget Production Schedule: PB 2014 Army		Date: April 2013
	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing	A00010 - RQ-11 (RAVEN) 	A00010 - RQ-11 (RAVEN)

		Product	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
						Init	ial			Reo	der	
MF	1				ALT Prior			Total After	ALT Prior			Total After
#	MFR Name - Location	MSR	1-8-5	MAX	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1
1	Aero Vironment - Simi Valley	250.00	750.00	1,500.00	-	2	2	4	-	2	2	4

<sup>&</sup>quot;A" in the Delivery Schedule indicated the Contract Award Date.

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

#### Service/Agency Suffixes:

LI A00010 - RQ-11 (RAVEN) Page 8 of 8 Army

<sup>(</sup>V) BASE

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

A05001 - Helicopter, Light Utility (LUH)

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

MDAP/MAIS Code(s):

					<b>E</b> V/ 00 / /										
	Prior			FY 2014	FY 2014	FY 2014					То				
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total			
Procurement Quantity (Units in Each)															
Gross/Weapon System Cost (\$ in Millions)															
3311 / Advance 1 roduction (a in minimons)															
et Procurement (P1) (\$ in Millions) 1,373.014 250.415 271.983 96.227 - 96.227 1,991.639															
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-			
Total Obligation Authority (\$ in Millions)	1,373.014	250.415	271.983	96.227	-	96.227	-	-	-	-	-	1,991.639			
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)						

	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	d elsewhere.)			
Initial Spares (\$ in Millions)	0.600	-	-	-	-	-	-	-	-	-	-	0.600
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	5,918.164	6,420.897	7,999.500	9,622.700	-	9,622.700	-	-	-	-	-	6.323

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **Description:**

The Light Utility Helicopter, UH-72A LAKOTA will provide general aviation support for Continental United States (CONUS) based Table of Distribution and Allowance (TDA) and Table of Organization and Equipment (TOE) aviation units in the active and reserve components. 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. The LUH program is currently in full rate production.

				FY 2014	FY 2014	FY 2014				
Secon	dary Distribution	FY 2012	FY 2013	Base	oco	Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	1	-	-	-	-	-	-	-	-
	Total Obligation Authority	6.421	-	-	-	-	-	-	-	-
ANG	Quantity	38	34	10	-	10	-	-	-	-
	Total Obligation Authority	243.994	271.983	96.227	-	96.227	-	-	-	-

**UNCLASSIFIED** 

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

A05001 - Helicopter, Light Utility (LUH)

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

Other Related Program Elements:

#### MDAP/MAIS Code(s):

Item Sche	dule		Р	rior Year	's		FY 2012			FY 2013		FY	2014 Ba	se	FY	2014 O	co	FY	2014 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
A05001 - Helicopter, Light Utility (LUH)	P5, P5A, P21		5,918.164	-	1,373.014	-	39	250.415	-	34	271.983	9,622.700	10	96.227	-	-	-	9,622.700	10	96.227
Total Gross/Weapon System Cost					1,373.014			250.415			271.983			96.227			-			96.227

<sup>\*</sup>Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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

#### Justification

FY14 Base procurement dollars in the amount of \$96.227 million support aircraft procurement, fielding, engineering services, training, program office support, and production/retrofit 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.

Exhibit P-5, Cost Analysis: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

A05001 - Helicopter, Light Utility (LUH)

Name, DODIC): A05001 - Helicopter, Light Utility (LUH)

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total
Procurement Quantity (Units in Each)	-	39	34	10	-	10
Gross/Weapon System Cost (\$ in Millions)	1,373.014	250.415	271.983	96.227	-	96.227
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,373.014	250.415	271.983	96.227	-	96.227
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,373.014	250.415	271.983	96.227	-	96.227

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.) Initial Spares (\$ in Millions) 0.600 5,918.164 6,420.897 Gross/Weapon System Unit Cost (Units in Thousands) 7,999.500 9,622.700 9,622.700

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

		Al	II Prior Yea	ars		FY 2012			FY 2013		F'	Y 2014 Bas	se	F	/ 2014 OC	0	F	2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
† Airframes/Includes non-recurring		-	-	1,165.974	5,375.000	39	209.615	5,239.000	34	178.139	5,482.000	10	54.815	-	-	-	5,482.000	10	54.815
B Kits (MEDEVAC & Hoist)		-	-	15.635	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Changes		-	-	85.793	-	-	13.356	-	-	70.170	-	-	15.862	-	-	-	-	-	15.862
System Engineering & Program Management		-	-	37.725	-	-	7.558	-	-	7.741	-	-	8.315	-	-	-	-	-	8.315
Systems Test & Evaluation		-	-	2.054	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Services		-	-	10.281	-	-	2.553	-	-	1.148	-	-	0.683	-	-	-	-	-	0.683
Procedural Trainers		-	-	5.978	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding		-	-	49.550	-	-	17.333	-	-	14.785	-	-	16.552	-	-	-	-	-	16.552
Other program Requirements		-	-	0.024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Recurring Cost				1,373.014			250.415			271.983			96.227			-			96.227
Total Flyaway Cost				1,373.014			250.415			271.983			96.227			-			96.227
Gross Weapon System Cost				1,373.014			250.415			271.983			96.227			-			96.227

P-5 Remarks:

**UNCLASSIFIED** 

P-1 Line #5

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FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Exhibit P-5, Cost Analysis: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	A05001 - Helicopter, Light Utility (LUH)	Item Nomenclature (Item Number - Item Name, DODIC): A05001 - Helicopter, Light Utility (LUH)

	Secondary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Army	Quantity	1	-	-	-	-
	Total Obligation Authority	6.421	-	-	-	-
ANG	Quantity	38	34	10	-	10
	Total Obligation Authority	243.994	271.983	96.227	-	96.227

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LI A05001 - Helicopter, Light Utility (LUH) Army

Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:
Rotary

Date: April 2013

Item Nomenclature:
A05001 - Helicopter, Light Utility (LUH)

Cost Elements († indicates the presence of a P-21)	0 0	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	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	34	5,239.000			
†Airframes/Includes non-recurring		2014	EADS-NA / Columbus, MS	C / FFP	EADS-NA Columbus, MS	Dec 2013	Sep 2014	10	5,482.000			

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Exhibit P-21, Budget Production Schedule: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: A05001 - Helicopter, Light Utility (LUH) A05001 - Helicopter, Light Utility (LUH) Rotary Cost Elements Fiscal Year 2012 Fiscal Year 2013 (Units in Each) ACCEP Calendar Year 2012 Calendar Year 2013 PRIOR BAL М 0 C 0 DUE A P R В F 0 D TO 1 A U S A U PROC OCT AS OF C E Ε A R Ü Ü E C 0 V Ε U U E R 0 V A N A Y A N Е A R Ρ A Y A L FY SERVICE<sup>‡</sup> QTY 1 OCT В G R N # 2011 В Airframes/Includes non-recurring 39 2012 ARMY (VI) 39 -Α ---3 3 3 3 3 1 34 34 Α -3 31 ARMY (VII) 2014 ARMY (VIII) 10 10 В A U S E A U A P Ρ U Ε Ε Е U U Ε Α Ε Α A Y U С 0 A N A Y A L Ν В R R Ĺ G Ρ С В R R N G

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														UN	ICL/	ASSII	FIED	)													
Ex	hik	oit P-	21, Bud	lget F	Produ	ction	Sche	dule	: PB 2	 2014 A	rmy													Date	e: Apr	il 201	3				
<b>A</b> p 20	pr	<b>opria</b> A: Air	tion / B craft Pro	udge	t Acti	vity /	Budg	et S	ub Ac	tivity:	:					<b>nencla</b> r, Ligh			JH)								ature: opter,		t Utilit	y (LU	H)
			Cost Elei (Units in									Fiscal Ye	ear 2014											Fiscal Y	ear 2015						
0 0 0	M F R	FY	SERVICE <sup>‡</sup>	PROC QTY			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	year 201 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
Air	frame		es non-recurr			1																									
	1	2012	ARMY (VI)	39														1													-
ш	1	2013	ARMY (VIII)	34			3				3		3	3	1	_			1	1	1	4	1	1	1	1	1	1			-
	1 2014 ARMY (VIII) 10 - 10 A 1 1 1 1 1 1 1 1																														
							C	O V	E	A	E B	A R	P R	A Y	U	U	Ü	E P	C T	O V	E C	A N	E B	A R	P R	A	U	Ü	Ü	E P	A

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Exhibit P-21, Budget Production Schedule: PB 2014 Army		Date: April 2013
, , , , , , , , , , , , , , , , , , ,	P-1 Line Item Nomenclature: A05001 - Helicopter, Light Utility (LUH)	Item Nomenclature: A05001 - Helicopter, Light Utility (LUH)

		Product	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
						Init	ial			Reo	rder	
MF					ALT Prior			Total After	ALT Prior			Total After
#	MFR Name - Location	MSR	1-8-5	MAX	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1
1	EADS-NA - Columbus, MS	20.00	30.00	60.00	-	9	5	14	-	2	9	11

<sup>&</sup>quot;A" in the Delivery Schedule indicated the Contract Award Date.

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

#### Service/Agency Suffixes:

<sup>(VI)</sup> 39

<sup>(VII)</sup> 34

<sup>(VIII)</sup> 10

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary 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:

MDAP/MAIS Code(s):

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
					000						- 1	
Procurement Quantity (Units in Each)	24	27	40	42	-	42	48	48	48	48	303	628
Gross/Weapon System Cost (\$ in Millions)	526.180	560.741	769.879	716.176	-	716.176	832.593	868.645	890.079	893.582	6,351.400	12,409.275
Less PY Advance Procurement (\$ in Millions)	-	160.237	192.764	107.707	-	107.707	150.931	157.338	159.993	158.814	943.506	2,031.290
Net Procurement (P1) (\$ in Millions)	526.180	400.504	577.115	608.469	-	608.469	681.662	711.307	730.086	734.768	5,407.894	10,377.985
Plus CY Advance Procurement (\$ in Millions)	-	192.764	107.707	150.931	-	150.931	157.338	159.993	158.814	160.532	943.506	2,031.585
Total Obligation Authority (\$ in Millions)	526.180	593.268	684.822	759.400	-	759.400	839.000	871.300	888.900	895.300	6,351.400	12,409.570
	(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)											
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

	( i ne rollowing	Resource Sumi	mary rows are to	r ıntormationai p	urposes only. Th	ie corresponaing	buaget requests	s are documente	a eisewnere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	21,924.167	20,768.185	19,246.975	17,051.810	-	17,051.810	17,345.688	18,096.771	18,543.313	18,616.292	20,961.716	19.760

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **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 enter the fleet in 2012

Secor	ndary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	27	40	42	-	42	48	24	48	24
	Total Obligation Authority	593.268	684.822	759.400	-	759.400	839.000	595.000	888.900	619.300
ANG	Quantity	=	-	-	-	-	-	24	-	24
	Total Obligation Authority	-	-	-	-	-	-	276.000	-	276.000

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Date: April 2013

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

A05111 - AH-64 Apache Block IIIA Reman

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements

**Program Elements for Code B Items:** 

Other Related Program Elements:

#### MDAP/MAIS Code(s):

Item Sche	dule		Р	rior Year	rs		FY 2012			FY 2013		FY	2014 Ba	se	F۱	2014 O	co	FY	2014 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
A05111 - AH-64 Apache Block IIIA Reman	P5, P5A, P21		21,924.167	-	526.180	-	27	560.741	-	40	769.879	17,051.810	42	716.176	-	-	-	17,051.810	42	716.176
Total Gross/Weapon System Cost					526.180			560.741			769.879			716.176			-			716.176

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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

#### Justification

FY14 Base procurement dollars in the amount of \$608.500 Million supports Advance Procurement, 42 Full Rate Production (FRP) AH-64E Apache Reman aircraft and associated support.

Post Nunn McCurdy re-certification (June 2010), this program was restructured from the single AH-64E Apache (A05111) into two separate programs, AH-64E Apache Reman (A05111) and AH-64E Apache New Build (A05133).

COMPO 1 Active and COMPO 2 National Guard. In FY16 and FY18, 24 aircraft are procured each year to support NGB.

The current AH-64E Apache Remanufacture Acquisition Program Baseline procurement objective is 634 aircraft.

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Exhibit P-5, Cost Analysis: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:
Rotary

P-1 Line Item Nomenclature:

A05111 - AH-64 Apache Block IIIA Reman

Name, DODIC):
A05111 - AH-64 Apache Block IIIA

FY 2013<sup>#</sup> FY 2014 OCO## **Prior Years** FY 2014 Total **Resource Summary** FY 2012 **FY 2014 Base** 27 42 Procurement Quantity (Units in Each) 40 716.176 Gross/Weapon System Cost (\$ in Millions) 526.180 560.741 769.879 716.176 Less PY Advance Procurement (\$ in Millions) 160.237 192.764 107.707 107.707 400.504 608.469 Net Procurement (P1) (\$ in Millions) 526.180 577.115 608.469 -Plus CY Advance Procurement (\$ in Millions) 192.764 107.707 150.931 150.931 Total Obligation Authority (\$ in Millions) 593.268 684.822 759,400 759,400 526.180

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

 Initial Spares (\$ in Millions)
 17,051.810
 17,051.810

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

		Al	I Prior Yea	irs		FY 2012			FY 2013		F'	Y 2014 Bas	se	F'	Y 2014 OC	0	F	2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
† CFE		12,821.000	24	307.695	6,783.000	27	183.130	9,453.000	40	378.107	6,783.000	42	284.901	-	-	-	6,783.000	42	284.90 <sup>-</sup>
GFE		6,669.000	24	160.059	2,581.000	27	69.700	4,069.000	40	162.763	4,888.000	42	205.295	-	-	-	4,888.000	42	205.29
Engineering Change Orders (ECO)		-	-	-	-	-	-	-	-	10.384	-	-	-	-	-	-	-	-	-
Non-Recurring Costs		-	-	-	-	-	48.167	-	-	9.602	-	-	-	-	-	-	-	-	-
Support Equipment		-	-	32.535	-	-	97.650	-	-	90.176	-	-	89.100	-	-	-	-	-	89.100
Other Costs		-	-	7.410	-	-	160.239	-	-	104.036	-	-	107.680	-	-	-	-	-	107.680
Initial Spares		-	-	18.481	-	-	1.855	-	-	14.811	-	-	29.200	-	-	-	-	-	29.200
Total Recurring Cost				526.180			560.741			769.879			716.176			-			716.176
Total Flyaway Cost				526.180			560.741			769.879			716.176			-			716.176
Gross Weapon System Cost				526.180			560.741			769.879			716.176			-			716.176

#### P-5 Remarks:

Se	condary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Army	Quantity	27	40	42	-	42
	Total Obligation Authority	593.268	684.822	759.400	-	759.400

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Reman

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<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Exhibit P-5A, Budget Procurement History and Planning: P	B 2014 Army	Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:	A05111 - AH-64 Apache Block IIIA Reman	A05111 - AH-64 Apache Block IIIA
Rotary		Reman

Cost Elements († indicates the presence of a P-21)	0 C 0	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†CFE		2012	The Boeing Company / Mesa, AZ	SS / FFP	AMCOM	Jan 2012	Jan 2013	27	6,783.000	N		Jun 2008
†CFE		2013	The Boeing Company / Mesa, AZ	SS / FFP	AMCOM	Apr 2013	Jan 2014	40	9,453.000	N		Jul 2012
†CFE		2014	The Boeing Company / Mesa, AZ	SS / FFP	AMCOM	Jan 2014	Jan 2015	42	6,783.000	N		Jul 2012

Remarks:

Major CFE cost drivers include the Fuselage, Transmission, and Composite Main Rotor Blades. GFE includes engines, EGIs, REUs, and UTAs. Other Cost includes Support Equipment, Peculiar Ground Support (PGSE), and Government In-House.

E	chik	oit F	P-21, Bud	get P	rodu	ction	Sche	dule:	PB 2	2014 A	Army													Date	: Apr	il 201	3				
20		<b>Α</b> : Δ	riation / B Aircraft Pro											Item - AH-6				K IIIA F	Rema	ın					111 -	n <b>encla</b> AH-64		: ache B	Block I	IIIA	
			Cost Elen (Units in I									Fiscal Y	ear 2012	!										Fiscal Y	ear 2013						
0 0 0	M F R	FY	service‡	PROC QTY	ACCEP PRIOR TO 1 OCT 2011		0 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	Year 201 J U L	A U G	S E P	0 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
CF	E 1	201	2 ARMY (IX)	27		27				Α -	_		   _						_			3	2	2	2	2	2		2	2	
	1	201	ALCIVIT	40		40		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	A -	-	-	-	-	-	40
	1	201	_	42	-	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42
							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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LI A05111 - AH-64 Apache Block IIIA Reman Army

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														UN	ICL	ASSI	FIE	)													
E	chib	it P-	21, Bud	get P	rodu	ction	Sche	dule:	PB 2	2014 A	rmy													Date	: Apri	il 201	3				
20		٠: Air	ation / B craft Pro													nencla bache		: k IIIA I	Rema	n					111 - 2		<b>ature</b> 4 Apa	: ache B	Block I	IIA	
			Cost Eler (Units in									Fiscal Y	ear 2014											Fiscal Ye	ar 2015						
	М				ACCEP PRIOR									C	alenda	r Year 20	14			1					Calen	dar Year	2015				
0 0	F R #	FY	SERVICE <sup>‡</sup>	PROC QTY	TO 1 OCT	DUE AS OF 1 OCT	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
CF	E																										-				
	1	2012	ARMY (IX)	27	19	8	3	3	2																						-
	1	2013	ARMY (X)	40	-	40	-	-	-	1	3	4	3	3	3	3 4	4	4	4	4	3										-
	1	2014	ARMY (XI)	42	! -	42	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4	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	J 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	N U	J U L	A U G	S E P	B A L

	iibit P	P-21, Bud	lget P	rodu	ction	Sched	dule:	PB 2	2014 /	Army													Date	: Apr	il 201	3				
203		iation / B ircraft Pro										<b>I Line</b> 5111 -						Rema	an					111 -	n <b>encl</b> AH-6			Block	IIIA	
		Cost Ele						,			Fiscal \	Year 2016											Fiscal Y	ear 2017					,	
Τ.						alendaı	Year 20	16									ndar Yea	r 2017												
)   N 	F R	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2015	DUE AS OF 1 OCT	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	
FE												'																		_
1	2012	7 (1 (17) )	27																											
1		7 (1 (1)) 1	40			2	2	2	1																					
	2014	4 ARMY (XI)	42	30	0	0	N Z	D	J	F	М	Α	М	J	J	A	s	0	N	D	J	F	М	Α	М	J	J	Α	s	
						C T	o V	E C	A N	E B	A R	P R	A Y	Ü	Ü	U G	E P	O C T	O V	E C	A N	E B	A R	P R	A Y	U N	Ü	Ü G	E P	

Exhibit P-21, Budget Production Schedule: PB 2014 Army		Date: April 2013
	P-1 Line Item Nomenclature: A05111 - AH-64 Apache Block IIIA Reman	Item Nomenclature: A05111 - AH-64 Apache Block IIIA Reman

		Product	ion Rates (Each / I	Month)				Procurement Lea	dtime (Months)			
						Initia	ıl			Reo	rder	
MFF #	MFR Name - Location	MSR	1-8-5	MAX	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, AZ	48.00	84.00	144.00	-	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 what the Full Rate Production contract requires. 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.

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

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

#### Service/Agency Suffixes:

(IX) BASE

(X) BASE

(XI) BASE

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Exhibit P-40 Advance Procurement, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

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:

MDAP/MAIS Code(s):

Drior			EV 2014	FY 2014	EV 2014					To	
Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
-	-	-	-	-	-	-	-	-	-	-	-
229.490	192.764	107.707	150.931	-	150.931	157.338	159.993	158.814	160.532	943.506	2,261.075
=	-	-	-	-	-	-	-	-	-	-	-
229.490	192.764	107.707	150.931	-	150.931	157.338	159.993	158.814	160.532	943.506	2,261.075
-	-	-	-	-	-	-	-	-	-	-	-
229.490	192.764	107.707	150.931	-	150.931	157.338	159.993	158.814	160.532	943.506	2,261.075
(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget requests	s are documente	d elsewhere.)			
-	-	-	-	-	-	-	-	-	-	-	-
	229.490 - 229.490 - 229.490	Years FY 2012	Years         FY 2012         FY 2013#           -         -         -           229.490         192.764         107.707           -         -         -           229.490         192.764         107.707           -         -         -           229.490         192.764         107.707	Years         FY 2012         FY 2013#         Base           -         -         -         -           229.490         192.764         107.707         150.931           -         -         -         -           229.490         192.764         107.707         150.931           -         -         -         -           229.490         192.764         107.707         150.931	Years         FY 2012         FY 2013#         Base         OCO##           -         -         -         -         -           229.490         192.764         107.707         150.931         -           -         -         -         -         -           229.490         192.764         107.707         150.931         -           229.490         192.764         107.707         150.931         -	Years         FY 2012         FY 2013#         Base         OCO##         Total           -         -         -         -         -           229.490         192.764         107.707         150.931         -         150.931           -         -         -         -         -         -           229.490         192.764         107.707         150.931         -         150.931           -         -         -         -         -         -         -           229.490         192.764         107.707         150.931         -         150.931	Years         FY 2012         FY 2013#         Base         OCO##         Total         FY 2015           -         -         -         -         -         -         -           229.490         192.764         107.707         150.931         -         150.931         157.338           -         -         -         -         -         -         -           229.490         192.764         107.707         150.931         -         150.931         157.338           -         -         -         -         -         -         -         -           229.490         192.764         107.707         150.931         -         150.931         157.338	Years         FY 2012         FY 2013#         Base         OCO##         Total         FY 2015         FY 2016           -	Years         FY 2012         FY 2013#         Base         OCO##         Total         FY 2015         FY 2016         FY 2017           -         -         -         -         -         -         -         -         -           229.490         192.764         107.707         150.931         -         150.931         157.338         159.993         158.814           -         -         -         -         -         -         -         -         -           229.490         192.764         107.707         150.931         -         150.931         157.338         159.993         158.814           -         -         -         -         -         -         -         -         -         -	Years         FY 2012         FY 2013#         Base         OCO##         Total         FY 2015         FY 2016         FY 2017         FY 2018           -	Years         FY 2012         FY 2013#         Base         OCO##         Total         FY 2015         FY 2016         FY 2017         FY 2018         Complete           -

	(The following	g Resource Sum	mary rows are to	or informational p	ourposes only. Ti	ne corresponding	g budget request	s are documented els	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **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 Reman 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 Apache Reman aircraft enter the fleet in 2012.

Seco	ndary Dis	tribution		FY 2012		FY 2013	3	FY 201 Base		FY 201 OCO	-	FY 20 <sup>-</sup> Tota		FY 20	15	FY 20	16	FY 2	017	FY 2	018
Army	Quantity				-		-		-		-		-		-		-		-		-
	Total Obl	igation Authority		192	2.764	10	7.707	1:	50.931		-	•	150.931		157.338		159.993		158.814		160.532
	Item Schedule			Р	rior Year	rs		FY 2012			FY 2013		FY	2014 Ba	se	FY	2014 O	co	FY	2014 To	tal
Item Nome	enclature*	Exhibits	CD	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost
A05111 - AH-6 Block IIIA Rem		P10		-	24	229.490	-	27	192.764	-	40	107.707	-	48	150.931	-	-	-	-	48	150.931

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<sup>\*\*\*</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40 Advance Procurement, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

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:

#### MDAP/MAIS Code(s):

Item Sche	dule		Р	rior Yea	rs		FY 2012			FY 2013		FY	′ 2014 Ba	ise	FY	2014 O	co	FY	2014 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
Total Gross/Weapon System Cost					229.490			192.764			107.707			150.931			-			150.931
Item Sche	dule			FY 2015			FY 2016			FY 2017			FY 2018		To	Comple	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
A05111 - AH-64 Apache Block IIIA Reman	P10		-	48	157.338	-	48	159.993	-	48	158.814	-	48	160.532	-	303	943.506	-	634	2,261.075
Total Gross/Weapon System Cost					157.338			159.993			158.814			160.532			943.506			2,261.075

<sup>\*</sup>Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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

#### Justification:

FY 14 Base Advance Procurement dollars in the amount of \$150.931 Million supports Advance Procurement items in support of the AH-64E Apache REMAN program.

Post Nunn McCurdy re-certification (June 2010), this program was restructured from the single AH-64E Apache (A05111) into two separate programs, AH-64E Apache Reman (A05111) and AH-64 Apache New Build (A05133).

COMPO 1 Active and National Guard. In FY16 and FY18, 24 aircraft are procured each year to support NGB.

Exhibit P-10, Advance Procuren	nent Requirement	s Analysis	s (page 1 -	Budget Fu	ınding Jus	stification	): PB 2014	Army	Date: Apri	I 2013		
Appropriation / Budget Activity 2031A: Aircraft Procurement, Arm Rotary			<b>P-1 Line I</b> A05111 - A			IIIA Rema	ın		Name):		(Item Num	
ID Code (A=Service Ready, B=Not Service Rea	ady) :		•									
First System (2014) Award Date: July 2009	First System (20 November 2011	014) Comple	tion Date:			<b>I</b>	Interval Between 1 Months	en Systems	:			
			Prior Years	FY 2012 (Each)	FY 2013 (Each)	FY 2014 (Each)	FY 2015 (Each)	FY 2016 (Each)	FY 2017 (Each)	FY 2018 (Each)	To Complete (Each)	Total (Each)
End Item Qu	antity		24	27	40	48	3 48	48	48	48	303	634
Description:												
Cost Element	Procurement Leadtime (Months)	When Rqd (Months)	All Prior Years (\$ M)	FY 2012 (\$ M)	FY 2013 (\$ M)	FY 2014 (\$ M)	FY 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 (\$ M)	FY 2018 (\$ M)	To Complete (\$ M)	Total (\$ M)
Other									,			
Apache Block III - Reman	12	12	229.490	192.764	107.707	150.93	1 157.338	159.993	158.814	160.532	943.506	2,261.075
Other Subtotal			229.490	192.764	107.707	150.93	1 157.338	159.993	158.814	160.532	943.506	2,261.075
Total Advance Procurement/Obligation Authority			229.490	192.764	107.707	150.93	1 157.338	159.993	158.814	160.532	943.506	2,261.075

Exhibit P-10, Advance Procurement Requirements Ana	alysis (pag	ge 2 - E	Budget Funding Ju	ustification): PB 2	014 Army	Date: A	pril 2013	
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA Rotary			em Nomenclature: .H-64 Apache Block			Number	•	tem Name, Item ne Block IIIA
ID Code (A=Service Ready, B=Not Service Ready) :								
				,	FY 2014			
			Unit Cost		<b>Qty</b> (Each)		Total C	ost Request
End Item				-		48		150.931
					FY 2014	ļ		
Cost Elements	QPA (Each)		Procurement Leadtime (Months)	Unit Cost	Qty (Each)		Contract Forecast Date	Total Cost Request

12

Other

Apache Block III - Reman

Dec 2012

150.931

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

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:

#### MDAP/MAIS Code(s):

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	10	-	-	-	-	-	-	-	45	55
Gross/Weapon System Cost (\$ in Millions)	-	84.264	329.256	-	-	-	-	-	-	-	2,482.221	2,895.741
Less PY Advance Procurement (\$ in Millions)	-	-	104.263	-	-	-	-	-	-	-	573.728	677.991
Net Procurement (P1) (\$ in Millions)	-	84.264	224.993	-	-	-	-	-	-	-	1,908.493	2,217.750
Plus CY Advance Procurement (\$ in Millions)	-	-	146.121	-	-	-	-	-	-	-	573.728	719.849
Total Obligation Authority (\$ in Millions)	-	84.264	371.114	-	-	-	-	-	-	-	2,482.221	2,937.599
	(The following	g Resource Sum	mary rows are fo	or informational p	ourposes only. Ti	he corresponding	g budget request	s are documente	ed elsewhere.)		1	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
			1		1							

	(The following	g Resource Sum	mary rows are to	or informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	32,925.600	-	-	-	-	-	-	-	55,160.467	52.650

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **Description:**

AH-64E Apache New Build is based on the AH-64E Reman program which 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. While AB3A remanufactures aircraft in production, AB3B assembles all new components resulting in completely new aircraft at the end of the production process. New aircraft fill shortages in the Apache fleet due to combat losses.

Item Sche	dule		P	rior Yea	rs		FY 2012			FY 2013		FY	2014 Ba	se	FY	2014 O	co	FY	2014 To	otal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost br>(\$ M)															
A05133 - AH-64 Apache Block IIIB New Build	P5, P5A, P21		-	-	-	-	-	84.264	-	10	329.256	-	-	-	-	-	-	-	-	-
Total Gross/Weapon System Cost					-			84.264			329.256			-			-			-

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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. The 8 Base aircraft procured in FY13 will support an increase in the training base capacity. The remaining 48 aircraft will fill shortages due to the establishment of a new heavy Active Component Combat Aviation Brigade (CAB) in CY2014. Advanced procurement of those aircraft begins in FY19.

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<sup>\*\*\*</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification Sh	eet: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget S 2031A: Aircraft Procurement, Army / BA 01: A		<b>P-1 Line Item N</b> A05133 - AH-64	Nomenclature: 4 Apache Block IIIB New Build
D Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Co	ode B Items:	Other Related Program Elements:
MDAP/MAIS Code(s):	'		
The WRA are not included in the 56 New Build aircraft	for the additional CAB and the training ba	ase increase.	
Post Nunn McCurdy re-certification (June 2010). This Apache Block IIIB New Build (A05133).	program was restructured from the single	AH-64 Block III (A05111) int	to two separate programs, AH-64 Apache Block IIIA Reman (A05111) and AH-64
All COMPO 1 Active			

LI A05133 - AH-64 Apache Block IIIB New Build Army

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Exhibit P-5, Cost Analysis: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature (Item Number - Item
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:	A05133 - AH-64 Apache Block IIIB New Build	Name, DODIC):
Rotary		A05133 - AH-64 Apache Block IIIB New
		Build

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	<b>FY 2014 Base</b>	FY 2014 OCO##	FY 2014 Total
Procurement Quantity (Units in Each)	-	-	10	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	84.264	329.256	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	104.263	-	-	-
Net Procurement (P1) (\$ in Millions)	-	84.264	224.993	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	146.121	-	-	-
Total Obligation Authority (\$ in Millions)	-	84.264	371.114	-	-	-
(The following Resource Sum	mary rows are for information	onal purposes only. The corr	responding budget requests	s are documented elsewhe	re.)	
Initial Spares (\$ in Millions)	_	_	_	_	_	_

Gross/Weapon System Unit Cost (Units in Thousands) 32,925.600

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

		Al	l Prior Yea	ars		FY 2012			FY 2013		F'	Y 2014 Ba	se	F'	Y 2014 OC	0	F'	Y 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
† CFE		-	-	-	-	-	84.264	19,069.000	10	194.462	-	-	-	-	-	-	-	-	-
GFE		-	-	-	-	-	-	9,117.000	10	92.990	-	-	-	-	-	-	-	-	-
Engineering Change Orders (ECO)		-	-	-	-	-	-	-	-	17.517	-	-	-	-	-	-	-	-	-
Non-Recurring Costs		-	-	-	-	-	-	-	-	17.131	-	-	-	-	-	-	-	-	-
Support Equipment		-	-	-	-	-	-	-	-	7.156	-	-	-	-	-	-	-	-	-
Initial Spares		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
War Replacement Aircraft		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Recurring Cost				-			84.264			329.256			-			-			-
Total Flyaway Cost				-			84.264			329.256			-			-			-
Gross Weapon System Cost				-			84.264			329.256			-			-			-

#### P-5 Remarks:

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FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Exhibit P-5A, Budget P	ocurement l	listory and Planning: F	PB 2014 Army				D	ate: April 2013		
Appropriation / Budget 2031A: Aircraft Procuren Rotary	•	•	<b>P-1 Line Item Nom</b> A05133 - AH-64 Ap		IIB New Bui	ld	A	<b>em Nomenclat</b> 05133 - AH-64 uild		(IIIB New
Cost Flements	O C		Method/Type, or	Location		Date of First	Otv	Unit Cost Av	cs ail Date Revsn	RFP Issue

Cost Elements	0			Method/Type, or	Location		Date of First	Qty	Unit Cost		Date Revsn	RFP Issue	
(† indicates the presence of a P-21)	0	FY	Contractor and Location	Funding Vehicle	of PCO	Award Date	Delivery	(Each)	(\$ K )	Now?	Avail	Date	١
†CFE		2013	The Boeing Company / Mesa	SS / FFP	AMCOM	Apr 2013	Jan 2014	10	19,069.000	N		Jul 2012	١

#### Remarks:

Major CFE cost drivers include the Fuselage, Transmission, and Composite Main Rotor Blades. GFE includes engines, EGIs, REUs, and UTAs. Other Cost includes Support Equipment, Peculiar Ground Support (PGSE), and Government In-House.

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Exh	nibi	t P-2	21, Bud	lget P	rodu	ction	Sche	dule:	PB 2	014 <i>A</i>	Army													Date	e: Apr	il 201	3				
	1A:	: Airo	t <b>ion / B</b> craft Pro										<b>Line</b> 5133 -						New E	Build					133 -		<b>ature</b> 4 Apa		Block	IIIB N	ew
	Cost Elements (Units in Each)											Fiscal Y	ear 2013)											Fiscal Y	ear 2014						
					ACCEP	1								(	Calendar	Year 201	3								Caler	ndar Yea	r 2014				
0   I C   I O   I	M F R #	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	0 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	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	2	2	2	2	2					-
	O N D J C O E A T V C N								F E B	M A R	A P R	M A Y	J U N	T U	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		

Exhibit P-21, Budget Production Schedule: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	P-1 Line Item Nomenclature: A05133 - AH-64 Apache Block IIIB New Build	Item Nomenclature: A05133 - AH-64 Apache Block IIIB New Build

		Product	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
						Init	ial			Reo	rder	
MFI	MED Name Leasting MCD 4.9.5 MAY				ALT Prior			Total After	ALT Prior			Total After
#	MFR Name - Location	MSR	1-8-5	MAX	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1
1	The Boeing Company - Mesa	48.00	84.00	144.00	-	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 what the Full Rate Production contract requires. 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.

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

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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Exhibit P-40 Advance Procurement, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

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:

MDAP/MAIS Code(s):

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	84.264	146.121	-	-	-	-	-	-	-	573.728	804.113
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	84.264	146.121	-	-	-	-	-	-	-	573.728	804.113
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	84.264	146.121	-	-	-	-	-	-	-	573.728	804.113
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

	(The following I	Resource Sumi	mary rows are for in	formational p	urposes only. Ti	ne corresponding	g budget request	s are documente	ed elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **Description:**

AH-64E Apache New Build is based on the AH-64E Apache Reman program which 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. While AB3A remanufactures aircraft in production, AB3B assembles all new components resulting in completely new aircraft at the end of the production process. New aircraft fill shortages in the Apache fleet due to combat losses.

Second	dary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	-	10	-	-	-	-	-	-	-
	Total Obligation Authority	84.264	371.114	-	-	-	-	-	-	-

	,																			
Item Sche	dule		Р	rior Yea	rs		FY 2012		_	FY 2013		FY	2014 Ba	se	FY	2014 O	СО	FY	<b>2014 To</b>	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost												
A05133 - AH-64 Apache Block IIIB New Build	P10		-	0	-	-	-	84.264	-	8	146.121	-	-	-	-	-	-	-	-	-
Total Gross/Weapon System Cost					-			84.264			146.121			-			-			-

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40 Advance Procurement, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

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:

#### MDAP/MAIS Code(s):

Item Sche	dule			FY 2015			FY 2016			FY 2017			FY 2018		To	Comple	te		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)
A05133 - AH-64 Apache Block IIIB New Build	P10		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	230.385
Total Gross/Weapon System Cost					-			-			-			-			573.728			804.113

<sup>\*</sup>Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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

#### Justification

The current AH-64E Apache New Build Acquisition Program Baseline (APB) procurement objective is 56 aircraft. The 8 Base aircraft procured in FY13 will support an increase in the training base capacity. There are not any FY14 Base Advance Procurement dollars. The remaining 48 aircraft will fill shortages due to the establishment of a new heavy Active Component Combat Aviation Brigade (CAB) in CY2014. Advanced procurement of those aircraft begins in FY19.

Post Nunn McCurdy re-certification (June 2010), this program was restructured from the single AH-64 Block III (A05111) into two separate programs, AH-64 Apache Block IIIA Reman (A05111) and AH-64 Apache Block IIIB New Build (A05133).

UNCLASSIFIED
Page 2 of 4

LI A05133 - AH-64 Apache Block IIIB New Build Army

Exhibit P-10, Advance Procurer	nent Requirement	s Analysis	s (page 1 -	Budget Fu	ınding Ju	stificatio	<b>n)</b> : PB 2014	Army	Date: Apr	il 2013		
Appropriation / Budget Activity 2031A: Aircraft Procurement, Arm Rotary	_	-		<b>tem Nome</b> AH-64 Apa		IIIB New	Build		Name):		(Item Num	
ID Code (A=Service Ready, B=Not Service Re	ady) :		'						'			
First System (2014) Award Date: July 2009	First System (20 November 2011	014) Comple	tion Date:				Interval Between 1 Months	een Systems	:			
			Prior Years	FY 2012 (Each)	FY 2013 (Each)	FY 2014 (Each)	FY 2015 (Each)	FY 2016 (Each)	FY 2017 (Each)	FY 2018 (Each)	To Complete (Each)	Total (Each)
End Item Q  Description:	uantity		0	-	8	-	-	-	-	-	-	
Cost Element	Procurement Leadtime (Months)	When Rqd (Months)	All Prior Years (\$ M)	FY 2012 (\$ M)	FY 2013 (\$ M)	FY 2014 (\$ M)	FY 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 (\$ M)	FY 2018 (\$ M)	To Complete (\$ M)	Total (\$ M)
Other												
AH-64E Apache New Build	12	12	-	84.264	146.121	-	-	-	-	-	-	230.385
Other Subtotal			-	84.264	146.121	-	-	-	-	-	-	230.38
Total Advance Procurement/Obligation Authority			-	84.264	146.121	-	-	-	-	-	-	230.385

Exhibit P-10, Advance Procurement Requirements An	alysis (pa	age 2 - E	Budget Funding Jus	tification): PB 20	14 Army	Date:	April 2013	
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSARotary			<b>em Nomenclature:</b> H-64 Apache Block II	IIB New Build		Numbe	e <b>r):</b>	tem Name, Item ne Block IIIB New
D Code (A=Service Ready, B=Not Service Ready) :	'					'		
					FY 2014		-	
			Unit Cost		<b>Qty</b> (Each)		Total C	Cost Request
End Item			(# 17)	-	(2007)	-		-
					FY 2014	i		
Cost Elements	<b>QPA</b> (Each		Procurement Leadtime (Months)	Unit Cost	<b>Qty</b> (Each)		Contract Forecast Date	Total Cost Reques
Other	,	,	( )	(* )	( ** )	I		,
AH-64E Apache New Build		-	12	-		-	Dec 2012	-

Date: April 2013

Appropriation / Budget Activity 2031A: Aircraft Procurement, Arm	•		•	у		<b>1 Line Item N</b> 2345 - Kiowa			·			
ID Code (A=Service Ready, B=Not Service Ready) :			Program Ele	ments for Co	de B Items	:		Other Relate	d Program El	ements:		
MDAP/MAIS Code(s):												
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 201	1 1 2017	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total

Resource Summary	Tears	F1 2012	F1 2013	Dase	000	TOLAT	F1 2015	F1 2010	F1 2017	F1 2010	Complete	IOLAI
Procurement Quantity (Units in Each)	-	9	16	-	-	-	-	-	-	-	-	25
Gross/Weapon System Cost (\$ in Millions)	-	112.800	183.900	-	-	-	-	-	-	-	-	296.700
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	112.800	183.900	-	-	-	-	-	-	-	-	296.700
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	112.800	183.900	-	-	-	-	-	-	-	-	296.700
	(The following	g Resource Sum	mary rows are fo	r informational p	ourposes only. Th	ne correspondin	g budget request	ts are documente	ed elsewhere.)	•	<b>N</b>	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

12.533.333

11.493.750

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

#### **Description:**

Total Gross/Weapon

System Cost

(Units in Thousands)

Gross/Weapon System Unit Cost

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.

Secondary	Distribution		FY 2012	2	FY 2013	3	FY 201 Base		FY 201 OCO		FY 20 Tota		FY 20	15	FY 20	)16	FY 2	017	FY 2	2018
Army Qua	ntity			9		16		-		-		-		-		-				-
Tota	l Obligation Authority		112	2.800	18	3.900		-		-		-		-		-		-		-
Item S	chedule		Р	rior Yea	rs		FY 2012			FY 2013		F	2014 Ba	ise	FY	2014 O	co	FY	<sup>'</sup> 2014 To	tal
Item Nomenclature	* Exhibits	ID	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
A02345 - Kiowa Warrioi	P5, P5A, P21		-	-	-	-	9	112.800	-	16	183.900	-	-	-	-	-	-	-	-	-

183.900

112.800 \*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P40.

**UNCLASSIFIED** LI A02345 - Kiowa Warrior WRA Army Page 1 of 8 P-1 Line #10 11.868

<sup>\*\*\*</sup> The FY 2014 OCO Request will be submitted at a later date

	ONOLAGOII ILD	
Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Ite	n Nomenclature:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	A02345 - Kid	wa Warrior WRA
ID Code (A=Service Ready, B=Not Service Ready) : Program Element	s for Code B Items:	Other Related Program Elements:
MDAP/MAIS Code(s):		
Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.		
Justification: Procures Wartime Replacement Aircraft (WRA) lost during Overseas Contingency Opera	ations (OCO) and returns the flee	t to Army authorized levels for MTOE,TDA, and ORF of 368.
OCO funding will procure Wartime Replacement Aircraft (in addition to FY 2010-2011 fu Bell Helicopter Textron Incorporated is producing cabins which will be delivered to Corpu applied to the current fleet. CCAD will then conduct ground/flight test and acceptance of	us Christi Army Depot (CCAD).	
In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L defense missions, domestic emergency responses and providing military support to civil	**	y for use by the active and reserve components of the Armed Forces for homeland

LI A02345 - Kiowa Warrior WRA Army

Exhibit P-5, Cost Analysis: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:

Rotary

Date: April 2013

Item Nomenclature (Item Number - Item Name, DODIC):

A02345 - Kiowa Warrior WRA

Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total
-	9	16	-	-	-
-	112.800	183.900	-	-	-
-	-	-	-	-	-
-	112.800	183.900	=	-	-
-	-	-	-	-	-
-	112.800	183.900	-	-	-
	Prior Years	- 9 - 112.800 112.800 	- 9 16 - 112.800 183.900	- 9 16 112.800 183.900 112.800 183.900	- 9 16

| Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Constitution | Cons

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

		Al	I Prior Yea	rs		FY 2012			FY 2013		F	Y 2014 Bas	se	F	Y 2014 OC	0	F	Y 2014 Tot	.al
Cost Elements († indicates the presence of a P-5A)	ID CD	UIIIL GOSL	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)												
Flyaway Cost														•					
Recurring Cost																			
† BHTI - Cabins		-	-	-	4,578.000	9	41.198	5,092.000	16	81.472	-	-	-	-	-	-	-	-	-
CCAD - Flight Test & Aircraft Acceptance		-	-	-	-	-	6.314	-	-	8.866	-	-	-	-	-	-	-	-	-
GFE / Hardware		-	-	-	-	-	61.121	-	-	88.758	-	-	-	-	-	-	-	-	
Program Support		-	-	-	-	-	4.167	-	-	4.804	-	-	-	-	-	-	-	-	-
Total Recurring Cost				-			112.800			183.900			-			-			-
Total Flyaway Cost				-			112.800			183.900			-			-			-
Gross Weapon System				-			112.800			183.900			-			-			-

#### P-5 Remarks:

Sec	ondary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Army	Quantity	9	16	-	-	-
	Total Obligation Authority	112.800	183.900	-	-	-

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Exhibit P-5A, Budget Procurement History and Planning: P	B 2014 Army	Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:	A02345 - Kiowa Warrior WRA	A02345 - Kiowa Warrior WRA
Rotary		

Cost Elements († indicates the presence of a P-21)	000	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ K) Special Avail Now?	Date Revsn	RFP Issue Date
†BHTI - Cabins		2012	BELL HELICOPTER TEXTRON INC / FORT WORTH, TEXAS	C / FFP	AMCOM, Redstone Arsenal, AL	Aug 2012	Mar 2014	9	4,578.000		
†BHTI - Cabins		2013	Bell Helicopter Textron, Inc. / Fort Worth, Texas	C / FFP	AMCOM, Redstone Arsenal, AL	Jun 2013	Jun 2015	16	5,092.000		

#### Remarks:

Army

Bell Helicopter Textron Incorporated (BHTI) will produce cabins in Amarillo, Texas and deliver to Corpus Christi Army Depot (CCAD) in Corpus Christi, Texas. CCAD will mount all remaining structure, equipment, and modifications which have been applied to the current fleet. CCAD will then conduct ground/flight test and acceptance of the aircraft. Unit cost reflects BHTI cabins only.

**UNCLASSIFIED** LI A02345 - Kiowa Warrior WRA Page 4 of 8 P-1 Line #10

Exhibit P-21, Budget Production Schedule: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:
Rotary

Date: April 2013

Item Nomenclature:
A02345 - Kiowa Warrior WRA

			Cost Elen (Units in E									Fiscal Y	ear 2012											Fiscal Y	ear 2013	3					
					ACCEP									C	alendar	Year 20	12								Caler	ndar Yea	r 2013				
0 C 0	M F R #	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	0 C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N 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	J U L	A U G	S E P	B A L
BH	TI - C	Cabins													,										,						
	1	2012	ARMY (XII)	9	-	9	-	-	-	-	-	-	-	-	-	-	Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	9
	2	2013	ARMY (XIII)	16	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Α -	-	-	-	16
							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

LI A02345 - Kiowa Warrior WRA Army

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Exhibit P-21, Budget Production Schedule: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:

Rotary

Cost Elements (Units in Each)

Fiscal Year 2014

Calendar Year 2014

Calendar Year 2014

PROC OCT AS OF C O E A E A E A P A U U U U E C O E A E A P A U U U U E C O E A E A P A U U U U E A

					ACCEP									C.	aienuar	tear 201	4								Caler	idar tear	2015				1
-   (	M F C R D #	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	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 J	A U G	S E P	0 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
	BHTI -	Cabins																													
	1	2012	ARMY (XII)	9	-	9	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	1	1	1					-
	2	2013	ARMY (XIII)	16	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	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	T U	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

LI A02345 - Kiowa Warrior WRA Army

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														UIV		4001		,													
Ex	hib	it P-	-21, Bud	get P	rodu	ction	Sche	dule:	PB 2	014 A	١rmy													Dat	e: Apr	ril 201	3				
20		۹: Air	ation / B													nencla arrior \										n <b>encl</b> a Kiowa			VRA		
		<u>-</u>	Cost Eler (Units in									Fiscal Y	ear 2016	;		,								Fiscal	ear 2017	,					
	м				ACCEP PRIOR				Calendar Year 2016												1			1	Caler	ndar Year	2017				
0 C 0	F R #	FY	SERVICE <sup>‡</sup>	PROC QTY	TO 1	DUE AS OF	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
ВН	TI - C	abins																													
	1		ARMY (XII)		9	-																									
	2	2013	ARMY (XIII)	16	4	12	1	1	1	1	2	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	J U L	A U G	S E P	B A L

LI A02345 - Kiowa Warrior WRA Army UNCLASSIFIED
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Exhibit P-21, Budget Production Schedule: PB 2014 Army	Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary  P-1 Line Item Nomen A02345 - Kiowa Warrio	

		Produc	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
						Init	ial			Reo	rder	
MF #	MFR Name - Location	MSR	1-8-5	MAX	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	BELL HELICOPTER TEXTRON INC - FORT WORTH, TEXAS	1.00	2.00	3.00	-	10	-	10	-	-	-	-
2	Bell Helicopter Textron, Inc Fort Worth, Texas	1.00	2.00	3.00	-	8	-	8	-	-	-	-

<sup>&</sup>quot;A" in the Delivery Schedule indicated the Contract Award Date.

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

#### Service/Agency Suffixes:

(XII) OCO

(XIII) OCO

LI A02345 - Kiowa Warrior WRA Army

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

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:

MDAP/MAIS Code(s):

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	420	89	74	65	-	65	65	89	35	34	538	1,409
Gross/Weapon System Cost (\$ in Millions)	7,305.169	1,597.728	1,304.979	1,155.187	-	1,155.187	1,157.197	1,402.663	677.816	733.385	13,138.252	28,472.376
Less PY Advance Procurement (\$ in Millions)	634.727	99.962	197.892	108.211	-	108.211	119.545	137.385	135.761	-	1,654.507	3,087.990
Net Procurement (P1) (\$ in Millions)	6,670.442	1,497.766	1,107.087	1,046.976	-	1,046.976	1,037.652	1,265.278	542.055	733.385	11,483.745	25,384.386
Plus CY Advance Procurement (\$ in Millions)	718.672	199.781	115.113	116.001	-	116.001	132.138	135.761	251.669	-	1,402.838	3,071.973
Total Obligation Authority (\$ in Millions)	7,389.114	1,697.547	1,222.200	1,162.977	-	1,162.977	1,169.790	1,401.039	793.724	733.385	12,886.583	28,456.359
	(The following	g Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)		-	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
					1				Ĭ	1		

	(The following	Resource Sumi	mary rows are to	r informational p	urposes only. Th	ne corresponding	budget requests	s are documente	d elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	17,393.260	17,952.000	17,634.851	17,772.108	-	17,772.108	17,803.031	15,760.258	19,366.171	21,570.147	24,420.543	20.208

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **Description:**

The UH-60 BLACK HAWK is a twin engine, single rotor helicopter that is designed to support the Army's air mobility doctrine for employment of land forces in the 21st century. The BLACK HAWK is used in the performance of the Air Assault, General Support, and Aeromedical Evacuation missions. It is designed to carry a crew of four and 11 combat-equipped troops, or an external load up to 9,000 pounds. It performs the missions of transporting troops and equipment into combat, resupplying the troops while in combat, and performing the associated functions of aeromedical evacuation, repositioning of reserves, and command and control.

Item Sche	dule		Р	rior Year	's		FY 2012			FY 2013		FY	2014 Ba	se	FY	′ 2014 O	co	FY	′ 2014 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
A05002 - UH-60 BLACK HAWK (MYP)	P5, P5A, P21		17,393.260	-	7,305.169	-	89	1,597.728	-	74	1,304.979	17,772.108	65	1,155.187	-	-	-	17,772.108	65	1,155.187
Total Gross/Weapon System Cost					7,305.169			1,597.728			1,304.979			1,155.187			-			1,155.187

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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

#### Justification:

FY 2014 Base funding in the amount of \$1,162.977 million will procure 65 aircraft.

<sup>\*\*\*</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification She	et: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Su 2031A: Aircraft Procurement, Army / BA 01: A		<b>P-1 Line Item I</b> AA0005 - UH-6	Nomenclature: 0 Blackhawk M Model (MYP)
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Co	de B Items:	Other Related Program Elements:
MDAP/MAIS Code(s):			,
			r use by the active and reserve components of the Armed Forces for homeland

LI AA0005 - UH-60 Blackhawk M Model (MYP) Army

Exhibit P-5, Cost Analysis: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item Name, DODIC):

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

AA0005 - UH-60 Blackhawk M Model (MYP)

A05002 - UH-60 BLACK HAWK (MYP)

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total
Procurement Quantity (Units in Each)	-	89	74	65	-	65
Gross/Weapon System Cost (\$ in Millions)	7,305.169	1,597.728	1,304.979	1,155.187	-	1,155.187
Less PY Advance Procurement (\$ in Millions)	634.727	99.962	197.892	108.211	-	108.211
Net Procurement (P1) (\$ in Millions)	6,670.442	1,497.766	1,107.087	1,046.976	-	1,046.976
Plus CY Advance Procurement (\$ in Millions)	718.672	199.781	115.113	116.001	-	116.001
Total Obligation Authority (\$ in Millions)	7,389.114	1,697.547	1,222.200	1,162.977	-	1,162.977

(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 (Units in Thousands) 17,393.260 17,952.000 17,634.851 17,772.108 17,772.108

Army

		Al	I Prior Yea	ırs		FY 2012			FY 2013		F'	Y 2014 Bas	e	F۱	/ 2014 OC	0	F	2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)									
Flyaway Cost																			
Recurring Cost																			
† Airframes/CFE		12,235.000	420	5,138.494	11,184.000	89	995.347	11,574.000	74	856.475	11,855.000	65	770.601	-	-	-	11,855.000	65	770.60
Engines/Accessories		-	-	557.137	706.000	178	125.686	711.000	148	105.188	725.000	130	94.300	-	-	-	725.000	130	94.30
Avionics (GFE)		-	-	245.465	-	-	67.395	-	-	49.799	-	-	46.766	-	-	-	-	-	46.76
Other GFE		-	-	191.363	-	-	24.999	-	-	22.373	-	-	22.188	-	-	-	-	-	22.188
ECO (All FLYAWAY Components)		-	-	142.977	-	-	42.926	-	-	32.042	-	-	31.910	-	-	-	-	-	31.91
Other Costs (Mission Equipment)		-	-	310.660	-	-	58.059	-	-	52.168	-	-	52.092	-	-	-	-	-	52.09
Tooling Equipment		-	-	80.262	-	-	16.424	-	-	0.794	-	-	0.009	-	-	-	-	-	0.00
Other Nonrecurring Cost		-	-	102.977	-	-	19.406	-	-	1.195	-	-	1.068	-	-	-	-	-	1.06
Peculiar Training Equipment		-	-	143.707	-	-	101.077	-	-	56.449	-	-	30.205	-	-	-	-	-	30.20
Publications/Tech Data		-	-	14.059	-	-	3.096	-	-	3.184	-	-	3.283	-	-	-	-	-	3.28
PM Administration		-	-	198.515	-	-	39.752	-	-	40.630	-	-	41.352	-	-	-	-	-	41.35
Fielding		-	-	179.553	-	-	103.561	-	-	84.682	-	-	61.413	-	-	-	-	-	61.413
Total Recurring Cost				7,305.169			1,597.728			1,304.979			1,155.187			-			1,155.18
Total Flyaway Cost				7,305.169			1,597.728			1,304.979			1,155.187			-			1,155.18
Gross Weapon System Cost				7,305.169			1,597.728			1,304.979			1,155.187			-			1,155.18

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-5, Cost Analysis: PB 2014 Army	Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	Item Nomenclature (Item Number - Item Name, DODIC): A05002 - UH-60 BLACK HAWK (MYP)

Ρ-	5 K	en	nar	KS:

Sec	condary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Army	Quantity	89	74	35	-	35
	Total Obligation Authority	1,697.547	1,222.200	611.736	-	611.736
ANG	Quantity	-	-	30	-	30
	Total Obligation Authority	-	-	551.241	-	551.241

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Exhibit P-5A, Budget Procurement History and Planning: P	B 2014 Army	Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:	AA0005 - UH-60 Blackhawk M Model (MYP)	A05002 - UH-60 BLACK HAWK (MYP)

	0						Date			Specs		
Cost Elements († indicates the presence of a P-21)	C	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	of First Delivery	Qty (Each)	Unit Cost	Avail Now?	Date Revsn Avail	RFP Issue Date
†Airframes/CFE		2012	Sikorsky Aircraft / Stratford CT	SS / FP	AMCOM	Jul 2012	Jul 2012	89	11,184.000	N		Jan 2010
†Airframes/CFE		2013	Sikorsky Aircraft / Stratford CT	SS / FP	AMCOM	Jan 2013	Jul 2013	74	11,574.000	N		Jan 2010
†Airframes/CFE		2014	Sikorsky Aircraft / Stratford CT	SS / FP	AMCOM	Jan 2014	Jul 2014	65	11,855.000	N		Jan 2010

#### Remarks:

Rotary

FY 2012 begins 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.

Exhibit P-21, Budget Production Schedule: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:
Rotary

P-1 Line Item Nomenclature:
AA0005 - UH-60 Blackhawk M Model (MYP)

Item Nomenclature:
A05002 - UH-60 BLACK HAWK (MYP)

	,																														
			Cost Elen (Units in I									Fiscal Y	ear 2012											Fiscal Y	ear 2013						
					ACCEP									C	alendar	Year 201	2	·							Calen	dar Year	2013				
0   I C   I	F R	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N 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	n n	A U G	S E P	B A L
Airfra	mes/C	CFE							,																		,				
1	20	012	ARMY	89	-	89	-	-	-	-	-	-	-	-	-	A1	2	10	4	11	14	1	2	7	6	6	7	-	-	-	18
1	20	012	• NAVY	42	-	42	-	-	-	-	-	-	-	-	-	2	1	2	1	2	1	7	-	4	3	4	4	1	2	2	6
1	20	012	◆ AF	15	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	4	4	3
1	20	012	◆ FMS	12	-	12	-	-	-	-	-	-	-	-	-	-	-	-	3	1	1	2	2	-	2	1	-	-	-	-	-
1	20		TOTAL	158	-	158	-	-	-	-	-	-	-	-	-	3	3	12	8	14	16	10	4	11	11	11	13	3	6	6	27
1	20	013	ARMY (XIV)	74	-	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	6	6	6	56
1	20		• NAVY (XV)	37	-	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	2	32
1	20	013	◆ FMS (XVI)	14	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	8
1	20	013	TOTAL	125	-	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	9	10	96
1	20	014	ARMY	65	-	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65
1	20	014	• NAVY	37	-	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37
1	20	014	◆ FMS	16	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
1	20	014	TOTAL	118	-	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	118
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N 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	J J	A U G	S E P	B A L

LI AA0005 - UH-60 Blackhawk M Model (MYP) Army

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Exhibit P-21, Budget Production Schedule: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: AA0005 - UH-60 Blackhawk M Model (MYP) A05002 - UH-60 BLACK HAWK (MYP) Rotary Cost Elements Fiscal Year 2014 (Units in Each) Fiscal Year 2015 ACCEP Calendar Year 2014 Calendar Year 2015 PRIOR М BAL 0 C 0 DUE В F TO 1 0 PROC С Е Р U Ü U U E OCT AS OF 0 Е A R A Y U U Е С 0 Е A N Ε A R Ρ Α Α FY SERVICE<sup>‡</sup> N R R L # QTY 2013 1 OCT G В Ν G Airframes/CFE 2012 ARMY 89 71 18 4 2 3 2 2 2 2 42 36 6 2 NAVY 2012 • AF 15 12 3 2 1 1 2012 • FMS 12 12 131 1 2012 TOTAL 158 27 2 2 2 1 74 18 56 6 6 6 6 6 6 6 6 5 2013 ARMY (XIV) 2013 NAVY 32 3 3 ◆ FMS (XVI) 6 TOTAL 96 8 11 9 11 9 11 8 2 1 2013 125 29 2 3 3 2 6 6 ARMY 65 65 Α -5 5 6 5 5 5 6 5 5 2014 -NAVY 2 2 3 3 2 2 2014 37 37 4 3 2 • FMS 16 16 2 2 2 1 TOTAL 118 118 9 8 8 8 11 10 9 2 2 2014 9 M 0 В Ε Е U Ε С 0 Ε Ε U U U Ε Α A Y A N A R A Y A L N R P c R Ğ В R G

LI AA0005 - UH-60 Blackhawk M Model (MYP) Army

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hibit P-21, Buc	get Prod	luction	Sche	hedule: PB 2014 Army															Date	: Apr	il 201	13				
propriation / B 31A: Aircraft Protary									<b>Line</b> 0005						el (M'	YP)							l <b>ature</b> 80 BL/		HAWK	(MY
Cost Ele (Units in								Fiscal Y	ear 2016											Fiscal Y	ear 2017					
	ACC									-	Calendar	Year 201	16								Caler	dar Yea	r 2017			
M F R FY SERVICE	PRIOC OC QTY 20	1 DUE		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
ames/CFE								1					1										1	1		
1 2012 ARMY	89	89 -																								
1 2012 • NAVY	42	42 -	1																							
1 2012 • AF		15 -	1																							
1 2012 + FMS	12	12 -	1																							
1 2012 TOTAL	158	158 -	1																							
1 2013 ARMY (XIV)	74	74 -	1																							
1 2013 • NAVY (XV)	37	37 -																								
1 2013 + FMS (XVI)	14	14 -	1																							
1 2013 TOTAL		125 -	-																							
1 2014 ARMY		65 -	-	-	-	]																				
1 2014 • NAVY	37	34	3 1	1	1	1																				
1 2014 + FMS	16	16 -	-	-	-	1																				
1 2014 TOTAL	118	115	3 1	1	1	1																				
'			0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	M	Α	М	J	J	Α	S
			C	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	O C T	O V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P

LI AA0005 - UH-60 Blackhawk M Model (MYP) Army

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Exhibit P-21, Budget Production Schedule: PB 2014 Army	Date: April 2013
77 7 7 7 7 7	 Item Nomenclature: A05002 - UH-60 BLACK HAWK (MYP)

	Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
					Ini	ial			Reo	rder	
MFR # MFR Name - Location	MSR	1-8-5	MAX	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
Sikorsky Aircraft - Stratford CT	18.00	96.00	150.00	8	3	6	9	-	3	6	9

<sup>‡</sup> Delivery rows marked with the • symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

Service/Agency Suffixes:

(XIV) BASE

(XV) BASE

(XVI) BASE

<sup>&</sup>quot;A" in the Delivery Schedule indicated the Contract Award Date.

Exhibit P-40 Advance Procurement, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

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:

MDAP/MAIS Code(s):

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	718.672	199.781	115.113	116.001	-	116.001	132.138	135.761	251.669	-	1,402.838	3,071.973
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	718.672	199.781	115.113	116.001	-	116.001	132.138	135.761	251.669	-	1,402.838	3,071.973
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	718.672	199.781	115.113	116.001	-	116.001	132.138	135.761	251.669	-	1,402.838	3,071.973
	(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	d elsewhere.)		1	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
						1						

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)														
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-		
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-		
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-		

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **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).

Item Schedule			Prior Years		FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total			
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost (\$ K)	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cos
AA0005 - UH-60 Blackhawk P10 M Model (MYP)	)		-	332	718.672	-	36	199.781	-	39	115.113	-	65	116.001	-	-	-	-	65	116.00
Total Gross/Weapon System Cost					718.672			199.781			115.113			116.001			-			116.001
Item Schedule				FY 2015		FY 2016			FY 2017			FY 2018			To Complete			Total		
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
AA0005 - UH-60 Blackhawk P10 M Model (MYP)	)		-	65	132.138	-	89	135.761	-	35	251.669	-	-	-	-	-	1,402.838	-	661	3,071.973

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

							UNG	CLASS	IFIED	)									
Exhibit P-40 Adv	ance Procu	reme	nt, Budget l	tem Just	tificatio	n Shee	t: PB 20	)14 Arm	y					Date	: April	2013			
<b>Appropriation / B</b> 2031A: Aircraft Pr						otary		I		Item No			Model (I	MYP)					
ID Code (A=Service Ready	, B=Not Service Rea	ady) :			Program	Elemen	ts for Cod	le B Items	;;			Oth	er Relate	d Progra	m Eleme	ents:			
MDAP/MAIS Code(s):				l									-						
Item Sche	dule		FY 20	15		FY 2016	6		FY 2017			FY 2018	3	To	Compl	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost Qty (\$K) (Each,	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
Total Gross/Weapon System Cost				132.138			135.761			251.669			-			1,402.838			3,071.973
*Item Nomenclature repre	sents Item Numb	er. DO	DIC. and Item Nan	ne for the P40	DA and P5:	Name for	the P18 and	l P23: Modi	fication N	umber and	Modificatio	n Title for	⊥ the P3A: Ite	ı em Number	and Item	Name for th	l <u> </u>		
Note: Totals in this Exhibit							,												

LI AA0005 - UH-60 Blackhawk M Model (MYP) Army

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Exhibit P-10, Advance Procuremen	t Requirement	s Analysis	s (page 1 -	Budget Fu	ınding Jus	stification	): PB 2014	Army	Date: Apri	I 2013		
Appropriation / Budget Activity / Bu 2031A: Aircraft Procurement, Army / I Rotary			<b>P-1 Line I</b> AA0005 -			Model (M`	YP)		Name):		(Item Num	
ID Code (A=Service Ready, B=Not Service Ready)	:		<u> </u>	:					:	:		
First System (2014) Award Date: May 2005	First System (2) June 2006	014) Comple	tion Date:		,		Interval Betwe 18 Months	en Systems:	:			
			Prior Years	FY 2012 (Each)	FY 2013 (Each)	FY 2014 (Each)	FY 2015 (Each)	FY 2016 (Each)	FY 2017 (Each)	FY 2018 (Each)	To Complete (Each)	Total (Each)
End Item Quant	ity		332	36	39	6	5 65	89	35	-	-	66
Description:												
Cost Element	Procuremen Leadtime (Months)	When Rqd	All Prior Years	FY 2012 (\$ M)	FY 2013 (\$ M)	FY 2014 (\$ M)	FY 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 (\$ M)	FY 2018 (\$ M)	To Complete	Total (\$ M)
Other												
CFE Airframe	18	6	323.033	147.041	36.730	35.20	5 33.984	62.173	164.016	-	-	802.182
Auxiliary Power Unit	6	3	17.012	2.570	3.820	4.133	3 5.021	3.764	4.482	-	-	40.802
Engines	14	3	278.946	41.860	62.213	63.30 <sup>-</sup>	76.901	57.654	68.674	-	-	649.549
EGI	12	3	44.809	6.380	9.482	10.259	9 12.463	9.344	11.131	-	-	103.868
Heads Up Display AVS-7	9	3	13.860	1.930	2.868	3.103	3.769	2.826	3.366	-	-	31.722
Hover Infrared Suppressor	14	3	25.361	-	-	-	-	-	-	-	-	25.36 <sup>-</sup>
Miscellaneous	12	3	15.651	-	_	-	-	-	-	-	1,402.838	1,418.489
Other Subtotal			718.672	199.781	115.113	116.00	1 132.138	135.761	251.669	-	1,402.838	3,071.97
Total Advance Procurement/Obligation Authority			718.672	199.781	115.113	116.00°	1 132.138	135.761	251.669	-	1,402.838	3,071.97

Exhibit P-10, Advance Procurement Requirements Analysis	(page 2 - Budget Funding Justification): PB 2014 Army	Date: April 2013
	P-1 Line Item Nomenclature: AA0005 - UH-60 Blackhawk M Model (MYP)	Item Nomenclature (Item Name, Item Number): AA0005 - UH-60 Blackhawk M Model (MYP)

ID Code (A=Service Ready, b=Not Service Ready) :			
		FY 2014	
	Unit Cost	Qty (Each)	Total Cost Request

				FY 2014		
Cost Elements	QPA (Each)	Procurement Leadtime (Months)	Unit Cost	Qty (Each)	Contract Forecast Date	Total Cost Request
Other						
CFE Airframe	1	18	-	-	Dec 2012	35.205
Auxiliary Power Unit	1	6	-	-	Dec 2012	4.133
Engines	2	14	-	-	Dec 2012	63.301
EGI	2	12	-	-	Dec 2012	10.259
Heads Up Display AVS-7	1	9	-	-	Dec 2012	3.103
Hover Infrared Suppressor	-	14	-	-	Dec 2012	-
Miscellaneous	-	12	-	-	Dec 2012	-

**End Item** 

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116.001

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

A05101 - CH-47 Helicopter

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

MDAP/MAIS Code(s):

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	122	45	44	28	-	28	30	39	27	2	45	382
Gross/Weapon System Cost (\$ in Millions)	3,276.004	1,305.718	1,428.292	884.996	-	884.996	915.299	1,174.446	846.945	164.018	952.213	10,947.931
Less PY Advance Procurement (\$ in Millions)	83.279	66.358	120.956	83.346	-	83.346	98.376	102.361	102.134	-	8.707	665.517
Net Procurement (P1) (\$ in Millions)	3,192.725	1,239.360	1,307.336	801.650	-	801.650	816.923	1,072.085	744.811	164.018	943.506	10,282.414
Plus CY Advance Procurement (\$ in Millions)	149.637	120.956	83.346	98.376	-	98.376	102.361	102.134	8.707	-	*.***	665.517
Total Obligation Authority (\$ in Millions)	3,342.362	1,360.316	1,390.682	900.026	-	900.026	919.284	1,174.219	753.518	164.018	943.506	10,947.931
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget requests	s are documente	ed elsewhere.)	•	1	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)												

### **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 aircraft. The CH-47 New Build aircraft and 8 Special Operations Aviation MH-47G New Build aircraft. The CH-47 PM will fiel

	Item Sched	dule		Р	rior Year	s		FY 2012			FY 2013		FY	2014 Ba	ise	FY	2014 O	co	FY	2014 To	tal
	Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
A	A05008 - CH-47 NEW BUILD	P5, P5A, P21		27,748.794	97	2,691.633	-	32	870.399	-	25	756.441	36,828.833	6	220.973	-	-	-	36,828.833	6	220.973

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Page 1 of 13 P-1 Line #13

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

P-1 Line Item Nomenclature:

A05101 - CH-47 Helicopter

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

#### MDAP/MAIS Code(s):

		_																		
Item Sche	dule		P	rior Year	'S		FY 2012			FY 2013		FY	2014 Ba	se	FY	′ 2014 O	co	FY	2014 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
CH-47 SLEP	P3A		23,374.840	25	584.371	-	13	435.319	-	19	671.851	30,182.864	22	664.023	-	-	-	30,182.864	22	664.023
Total Gross/Weapon System Cost					3,276.004			1,305.718			1,428.292			884.996			-			884.996
Item Sche				FY 2015			FY 2016			FY 2017			FY 2018		To	Comple	te		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
A05008 - CH-47 NEW BUILD	P5, P5A, P21		36,800.000	4	147.200	33,058.333	12	396.700	-	-	0.200	-	-	-	-	-	-	28.884	176	5,083.546
CH-47 SLEP	P3A		29,542.269	26	768.099	28,805.407	27	777.746	31,360.926	27	846.745	82,009.000	2	164.018	21,160.289	45	952.213	28.468	206	5,864.385
Total Gross/Weapon System Cost					915.299			1,174.446			846.945			164.018			952.213			10,947.931

<sup>\*</sup>Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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

#### Justification:

FY14 Base procurement dollars in the amount of \$900.026 million will procure 6 new build aircraft and 22 renew aircraft.

Note: The 7 MH-47Gs are not part of the planned FY13-17 Multiyear Procurement.

Error in Quantity for FY12 procurement quantity: Total should be 48 aircraft with 33 new build and 15 renew.

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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LI A05101 - CH-47 Helicopter Army

Exhibit P-5, Cost Analysis: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:

A05101 - CH-47 Helicopter

Name, DODIC): A05008 - CH-47 NEW BUILD

Item Nomenclature (Item Number - Item

91

Rotary

(Units in Thousands)

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	97	32	25	6	-	6	4	12	-	-	-	176
Gross/Weapon System Cost (\$ in Millions)	2,691.633	870.399	756.441	220.973	-	220.973	147.200	396.700	0.200	-	-	5,083.546
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	2,691.633	870.399	756.441	220.973	-	220.973	147.200	396.700	0.200	-	-	5,083.546
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,691.633	870.399	756.441	220.973	-	220.973	147.200	396.700	0.200	-	-	5,083.546
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Ti	he corresponding	budget request	s are documente	d elsewhere.)	•		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	27,748.794	27,199.969	30,257.640	36,828.833	-	36,828.833	36,800.000	33,058.333	-	-	-	28.884

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

		Al	l Prior Yea	rs		FY 2012			FY 2013		F۱	/ 2014 Bas	se e	F۱	/ 2014 OC	0	F۱	/ 2014 Tota	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost									
Flyaway Cost									\										
Recurring Cost																			
† Airframes/CFE		27,324.000	66	1,803.374	19,889.000	32	636.440	16,080.000	25	402.010	21,620.000	6	129.720	-	-	-	21,620.000	6	129.7
Engine/Accessories		1,428.000	132	188.469	987.000	62	61.210	1,074.000	36	38.666	1,040.000	12	12.476	-	-	-	1,040.000	12	12.4
CFE Avionics		-	-	115.236	-	-	39.824	-	-	25.155	-	-	8.117	-	-	-	-	-	8.1
GFE		-	-	225.450	-	-	30.278	-	-	52.358	-	-	17.992	-	-	-	-	-	17.9
ECO (Flyaway)		-	-	23.680	-	-	13.941	-	-	19.643	-	-	6.395	-	-	-	-	-	6.3
Other Costs		-	-	50.947	-	-	26.304	-	-	33.249	-	-	10.510	-	-	-	-	-	10.5
SOA Aircraft		-	-	12.041	-	-	12.202	-	-	74.164	-	-	-	-	-	-	-	-	-
PSE		-	-	13.986	-	-	2.096	-	-	2.911	-	-	1.043	-	-	-	-	-	1.0
Peculiar Training Equipment		-	-	40.285	-	-	0.532	-	-	0.368	-	-	2.598	-	-	-	-	-	2.5
Publications/Tech Data		-	-	8.850	-	-	0.491	-	-	0.338	-	-	0.136	-	-	-	-	-	0.1
ECO (Support Items)		-	-	1.794	-	-	0.452	-	-	0.625	-	-	0.225	-	-	-	-	-	0.2
NET		-	-	32.211	-	-	-	-	-	21.653	-	-	6.819	-	-	-	-	-	6.8
Other Support Costs		-	-	26.451	-	-	9.129	-	-	8.239	-	-	3.936	-	-	-	-	-	3.9
Post Production Modifications		-	-	134.702	-	-	31.787	-	-	73.682	-	-	19.877	-	-	-	-	-	19.8
Initial Spares		-	-	14.157	-	-	5.713	-	-	3.380	-	-	1.129	-	-	-	-	-	1.1
Total Recurring Cost				2,691.633			870.399			756.441			220.973			-			220.9

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Exhibit P-5, Cost Analysis: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:
Rotary

Date: April 2013

Item Nomenclature (Item Number - Item Name, DODIC):
A05101 - CH-47 Helicopter

A05008 - CH-47 NEW BUILD

		Al	l Prior Yea	ars		FY 2012			FY 2013		F`	Y 2014 Bas	e	F	/ 2014 OC	)	F	/ 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)															
Total Flyaway Cost				2,691.633			870.399			756.441			220.973			-			220.973
Gross Weapon System Cost				2,691.633			870.399			756.441			220.973			=			220.973

			FY 2015			FY 2016			FY 2017			FY 2018		To	o Complet	е		Total Cost	t
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
† Airframes/CFE		22,096.000	4	88.384	21,982.000	12	263.784	-	-	-	-	-	-	-	-	-	128,991.000	145	3,323.712
Engine/Accessories		1,063.000	8	8.500	1,057.000	24	25.370	-	-	-	-	-	-	-	-	-	6,649.000	274	334.69
CFE Avionics		-	-	5.530	-	-	16.506	-	-	-	-	-	-	-	-	-	-	-	210.368
GFE		-	-	12.211	-	-	37.291	-	-	-	-	-	-	-	-	-	-	-	375.580
ECO (Flyaway)		-	-	4.355	-	-	13.033	-	-	-	-	-	-	-	-	-	-	-	81.047
Other Costs		-	-	8.225	-	-	17.196	-	-	-	-	-	-	-	-	-	-	-	146.431
SOA Aircraft		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98.407
PSE		-	-	0.440	-	-	1.035	-	-	-	-	-	-	-	-	-	-	-	21.511
Peculiar Training Equipment		-	-	1.725	-	-	4.109	-	-	-	-	-	-	-	-	-	-	-	49.617
Publications/Tech Data		-	-	0.086	-	-	0.202	-	-	-	-	-	-	-	-	-	-	-	10.10
ECO (Support Items)		-	-	0.095	-	-	0.223	-	-	-	-	-	-	-	-	-	-	-	3.414
NET		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60.683
Other Support Costs		-	-	2.493	-	-	5.858	-	-	-	-	-	-	-	-	-	-	-	56.106
Post Production Modifications		-	-	14.390	-	-	9.753	-	-	0.200	-	-	-	-	-	-	-	-	284.39
Initial Spares		-	-	0.766	-	-	2.340	-	-	-	-	-	-	-	-	-	-	-	27.485
Total Recurring Cost				147.200			396.700			0.200			-			-			5,083.546
Total Flyaway Cost				147.200			396.700			0.200			-			-			5,083.546
Gross Weapon System Cost				147.200			396.700			0.200			-			-			5,083.546

#### P-5 Remarks:

	Secondary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	14	25	6	-	6	4	12	-	-
	Total Obligation Authority	330.399	756.441	220.973	-	220.973	147.200	396.700	0.200	-

LI A05101 - CH-47 Helicopter Army UNCLASSIFIED
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P-1 Line #13

Exhibit P-5, Cost Analysis: PB 2014 Army			Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	P-1 Line Item Nomenclatu A05101 - CH-47 Helicopter	_	Item Nomenclature (Item Number - Item Name, DODIC): A05008 - CH-47 NEW BUILD
		Î	

	Secondary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
ANG	Quantity	18	-	-	-	-	-	-	-	-
	Total Obligation Authority	540.000	-	-	-	-	-	-	-	-

LI A05101 - CH-47 Helicopter Army UNCLASSIFIED
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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:
Rotary

Date: April 2013

Item Nomenclature:
A05008 - CH-47 NEW BUILD

Cost Elements († indicates the presence of a P-21)	0 0	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†Airframes/CFE		2012	The Boeing Company / Ridley Park, PA	SS / FFP	AMCOM	Dec 2011	Jan 2014	32	19,889.000	N		Apr 2007
†Airframes/CFE		2013	The Boeing Company / Ridley Park, PA	SS / FFP	AMCOM	May 2013	Apr 2016	25	16,080.000	N		Jul 2011
†Airframes/CFE		2014	The Boeing Company / Ridley Park, PA	SS / FFP	AMCOM	May 2014	Apr 2017	6	21,620.000	N		Jul 2011

Exhibit P-21, Budget Production Schedule: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:
Rotary

Date: April 2013

Item Nomenclature:
A05008 - CH-47 NEW BUILD

		•																													
			Cost Elem (Units in E									Fiscal Y	ear 2012											Fiscal Y	ear 2013						
					ACCEP									C	alendar	Year 201	12								Caler	ndar Year	2013				
0 0	M F R #	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	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	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	A U G	S E P	B A L
Ai	rframe	s/CFE																										· ·			
	1	2012	ARMY	32	-	32	-	-	Α -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	32
	1	2013	ARMY	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Α -	-	-	-	_	25
	1	2014	ARMY (XVII)	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 T	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 L	A U G	S E P	B A L

LI A05101 - CH-47 Helicopter Army UNCLASSIFIED
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Exhibit P-21, Budget Production Schedule: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:
Rotary

Date: April 2013

Item Nomenclature:
A05101 - CH-47 Helicopter

A05008 - CH-47 NEW BUILD

			Cost Elem (Units in E									Fiscal Y	ear 2014											Fiscal Y	ear 2015	;					
					ACCEP									C	alendar	Year 201	4								Caler	ndar Year	2015				
0 C O	M F R	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	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	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
Air	frame	s/CFE		,									,					,													
	1	2012	ARMY	32	-	32	-	-	-	3	3	3	3	3	3	2	2	3	3	3	1										-
	1	2013	ARMY	25	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
	1	2014	ARMY (XVII)	6	-	6	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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	U U	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

LI A05101 - CH-47 Helicopter Army UNCLASSIFIED
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Exhibit P-21, Budget Production Schedule: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: A05101 - CH-47 Helicopter A05008 - CH-47 NEW BUILD Rotary Cost Elements Fiscal Year 2016 (Units in Each) Fiscal Year 2017 ACCEP Calendar Year 2016 Calendar Year 2017 M PRIOR BAL 0 C 0 DUE A P R В F TO 1 0 A U A U PROC OCT AS OF C 0 V E Ε A R Ü Ü E C 0 V Е Ε Р U U E R A N A Y A N A R A Y A L FY SERVICE<sup>‡</sup> QTY 1 OCT G R N # 2015 Airframes/CFE ARMY 32 32 2012 -1 ARMY 25 25 2 2 2013 2 2 2 6 ARMY (XVII) B A L D E F E M A U J A U S 0 N O D E F E M A J U J S A U A Y R R Ĺ N В G Р

LI A05101 - CH-47 Helicopter Army UNCLASSIFIED
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Exhibit P-21, Budget Production Schedule: PB 2014 Army	Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	Item Nomenclature: A05008 - CH-47 NEW BUILD

		Product	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
						Init	ial			Reo	rder	
MFI #	MFR Name - Location	MSR	1-8-5	MAX	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	24.00	24.00	72.00	5	5	35	40	-	-	-	-

<sup>&</sup>quot;A" in the Delivery Schedule indicated the Contract Award Date.

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

Service/Agency Suffixes:

(XVII) Base

LI A05101 - CH-47 Helicopter Army

Exhibit P-3A, Individual Modification: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	<b>Modification Nomenclature</b>
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:	A05101 - CH-47 Helicopter	(Modification Number - Modification
Rotary		Title):
		CH-47 SLEP

FY 2014

FY 2014

Type Modification: .

FY 2014

Resource Summary	Years	FY 2012	FY 2013"	Base	OCO""	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	25	13	19	22	-	22	26	27	27	2	45	206
Gross/Weapon System Cost (\$ in Millions)	584.371	435.319	671.851	664.023	-	664.023	768.099	777.746	846.745	164.018	952.213	5,864.385
Less PY Advance Procurement (\$ in Millions)	50.520	66.358	120.956	83.346	-	83.346	98.376	102.361	102.134	-	8.707	632.758
Net Procurement (P1) (\$ in Millions)	533.851	368.961	550.895	580.677	-	580.677	669.723	675.385	744.611	164.018	943.506	5,231.627
Plus CY Advance Procurement (\$ in Millions)	116.878	120.956	83.346	98.376	-	98.376	102.361	102.134	8.707	-	*.***	632.758
Total Obligation Authority (\$ in Millions)	650.729	489.917	634.241	679.053	-	679.053	772.084	777.519	753.318	164.018	943.506	5,864.385
	(The following	Resource Sum	mary rows are for	informational p	urposes only. Th	ne corresponding	budget requests	s are documente	d elsewhere.)		1=	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	23,374.840	33,486.077	35,360.579	30,182.864	-	30,182.864	29,542.269	28,805.407	31,360.926	82,009.000	21,160.289	28.468

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

**Prior** 

Models of Systems Affected: CH-47

### **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.

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LI A05101 - CH-47 Helicopter Army

P-1 Line #13

Related RDT&E PEs:

To

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-3A, Individual Modification: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	<b>Modification Nomenclature</b>
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:	A05101 - CH-47 Helicopter	(Modification Number - Modification
Rotary		Title):
		CH-47 SLEP

									011-41	SLLI		
Models of Systems Affected: CH-47		Type I	Modification	on: .			Re	lated RDT	&E PEs:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (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												
CH-47 D to F Conversion												
A Kits												_
Recurring												
Recurring Production (Mods)	25 / 487.718	13 / 370.002	19 / 526.567	22 / 525.204	- / -	22 / 525.204	26 / 635.386	27 / 676.497	27 / 693.741	2 / 47.217	45 / 8.707	206 / 3,971.03
Other Flyaway	0 / 35.100	- / 24.000	- / 53.900	- / 58.036	- / -	- / 58.036	- /71.380	- / 63.735	- / 70.329	- / 53.573	- / 115.614	- / 545.66
Other Support	0 / 54.364	- /7.600	- /40.803	- / 40.842	- / -	- /40.842	- / 17.468	- / 14.223	- / 20.136	- /9.206	- / -	- / 204.642
Training	0 / 1.100	- / 0.200	- / 11.912	- / 21.235	- / -	- / 21.235	- / 11.213	- / 9.245	- / 13.969	- / 13.385	- / 12.800	- / 95.05
Support Equipment	0 / 6.089	- / 3.717	- /7.292	- /7.964	- / -	- /7.964	- /7.844	- /7.594	- / 5.361	- / 0.404	- / -	- / 46.26
Post Production (Mods)	0 / 0.000	- / 29.800	- / 31.377	- /10.742	- / -	- /10.742	- / 24.808	- /6.452	- / 43.209	- /40.233	- /815.092	1,001.71
Subtotal Recurring	25 / 584.371	13 / 435.319	19 / 671.851	22 / 664.023	- / -	22 / 664.023	26 / 768.099	27 / 777.746	27 / 846.745	2/164.018	45 / 952.213	206 / 5,864.38
Total, CH-47 D to F Conversion	25 / 584.371	13 / 435.319	19 / 671.851	22 / 664.023	- / -	22 / 664.023	26 / 768.099	27 / 777.746	27 / 846.745	2/164.018	45 / 952.213	206 / 5,864.38
Total Procurement, All Modifications	25 / 584.371	13 / 435.319	19 / 671.851	22 / 664.023	- / -	22 / 664.023	26 / 768.099	27 / 777.746	27 / 846.745	2/164.018	45 / 952.213	206 / 5,864.38
Total Procurement and Support	584.371	435.319	671.851	664.023	-	664.023	768.099	777.746	846.745	164.018	952.213	5,864.38
CH-47 D to F Conversion Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total Installation Cost	0/0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total Cost (Procurement + Support + Installation)	584.371	435.319	671.851	664.023	-	664.023	768.099	777.746	846.745	164.018	952.213	5,864.385

LI A05101 - CH-47 Helicopter Page 12 of 13 Army

CH-47 SLEP													
Exhibit P-3A, Indiv	ridual Modifica	ation: PB 2	2014 Army							Date: A	pril 2013		
										(Modific	ation Numb		ation
Models of Systems	s Affected: CH	l-47		Type Mod	lification: .				Related RI	OT&E PEs:			
Manufacturer Informati	ion: CH-47 D to F	Conversion											
Manufacturer Name: Boo	eing					Mai	nufacturer Location	n: Ripley, PA					
Administrative Leadtime	(in Months): 5					Pro	duction Leadtime	(in Months): 1	2				
Dates	FY 2012	2	FY 2013		FY 2014		FY 2015		FY 2016	F	Y 2017	FY	2018
Contract Dates	Feb 201	2	Jun 2013	3	Jun 2014		Jun 2015		Jun 2016	Jı	ın 2017	Jun	2018
												<u> </u>	
Delivery Dates	Feb 201	3	Jun 2014		Jun 2015		Jun 2016		Jun 2017	Jı	ın 2018	Jun	2019
Delivery Dates		3	Jun 2014								ın 2018	Jun	2019
,		3	Jun 2014		mplementation	1	or				ın 2018		2019
,	F Conversion			Method of I	mplementation FY 2014	FY 2014	or FY 2014		Installation N	lame:		То	
,	F Conversion	Prior Years Qty (Each) /	FY 2012  Qty (Each) /	Method of In	mplementation FY 2014 Base Qty (Each) /	FY 2014 OCO Qty (Each)	or FY 2014 Total / Qty (Each) /	FY 2015  Qty (Each) /	Installation N FY 2016 Qty (Each) /	FY 2017  Qty (Each) /	FY 2018  Qty (Each) /	To Complete	<b>Total</b> Qty (Each)
Installation: CH-47 D to	F Conversion	Prior Years  Qty (Each) / Total Cost (\$ M )	FY 2012  Qty (Each) / Total Cost (\$ M )	FY 2013  Qty (Each) / Total Cost (\$ M	mplementation FY 2014 Base Qty (Each) / Total Cost (\$ M )	FY 2014 OCO Qty (Each) Total Cost (\$	or    FY 2014   Total	FY 2015  Qty (Each) / Total Cost (\$ M )	Installation N FY 2016 Qty (Each) / Total Cost (\$ M )	FY 2017  Qty (Each) / Total Cost (\$ M )	FY 2018  Qty (Each) / Total Cost (\$ M )	To Complete Qty (Each) / Total Cost (\$ M )	Total Oty (Each) Total Cost (\$
Installation: CH-47 D to Installation Cost All Prior Years	F Conversion	Prior Years  Oty (Each) / Total Cost (\$ M )  0 / 0.000	FY 2012  Qty (Each) / Total Cost (\$ M )  0 / 0.000	FY 2013  Qty (Each) / Total Cost (\$ M / 0 / 0.000	mplementation FY 2014 Base Qty (Each) / Total Cost (\$ M ) 0 0 / 0.000	FY 2014 OCO Qty (Each) Total Cost (\$ /	or FY 2014 Total / Qty (Each) / Total Cost (\$ M ) - 0 / 0.000	FY 2015  Oty (Each) / Total Cost (\$ M )  0 / 0.000	Installation N FY 2016 Qty (Each) / Total Cost (\$ M ) 0 / 0.000	FY 2017  Qty (Each) / Total Cost (\$ M )  0 / 0.000	FY 2018  Oty (Each) / Total Cost (\$ M )  0 / 0.000	To Complete  Qty (Each) / Total Cost (\$ M )  0 / 0.000	Total Qty (Each) Total Cost (\$
Installation: CH-47 D to Installation Cost All Prior Years FY 2012 FY 2013	F Conversion	Prior Years  Oty (Each) / Total Cost (\$ M )  0 / 0.000  0 / 0.000  0 / 0.000	FY 2012  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / / -	FY 2013  Qty (Each) / Total Cost (\$ M / 0 / 0.000	mplementation	FY 2014 OCO Oty (Each) Total Cost (\$ 0	OT FY 2014 Total  / Qty (Each) / Total Cost (\$ M ) - 0 / 0.000 - / -	FY 2015  Oty (Each) / Total Cost (\$ M )  0 / 0.000  - / / -	Installation N FY 2016	FY 2017  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / / -	FY 2018  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -	To Complete  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / / -	Total Qty (Each) Total Cost (\$ 0 / 0 - /
Installation: CH-47 D to Installation Cost All Prior Years FY 2012 FY 2013 FY 2014	F Conversion	Prior Years  Oty (Each) / Total Cost (\$ M )  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000	FY 2012  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -	FY 2013	mplementation  FY 2014 Base  Qty (Each) / Total Cost (\$ M ) 0 0 / 0.000 - / / / -	FY 2014 OCO	Property of the control of the contr	FY 2015  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -	Installation N  FY 2016  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -	FY 2017	FY 2018  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -	To Complete  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -	Total  Qty (Each;  Total Cost (\$  0 / 0  - /  - /
Installation: CH-47 D to Installation Cost All Prior Years FY 2012 FY 2013 FY 2014 FY 2015	F Conversion	Prior Years  Oty (Each) / Total Cost (\$ M )  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000	FY 2012  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -	FY 2013   Qty (Each) / Total Cost (\$ M )   0 / 0.00( - / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / - / / / / / / - / / - / / - / - / / - / / - / / - / / - / / - / / - / / - / / - / / - / / - / / - / / - / / - / - / / - / / - / / - / / - / / - / - / - / - / - / / - / / - / / - / / - / / - / / - / / / / - / / - / / / - / / - / / - / / / - / / - / / / - / / - / / - / / - / / - / / - / / - / / - / / - / - / / - / / - / - / - / / - /	mplementation  FY 2014 Base  Qty (Each) / Total Cost (\$ M )  0 0 / 0.000 - / / / / -	FY 2014 OCO Oty (Each) Total Cost (\$ ) - / - / - /	Property of the first of the fi	FY 2015  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -	Installation N	FY 2017  Oty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -	FY 2018  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -	To Complete  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -	Total  Qty (Each Total Cost (\$ 0 / 0 - / - / - / - /
Installation: CH-47 D to Installation Cost All Prior Years FY 2012 FY 2013 FY 2014 FY 2015 FY 2016	F Conversion	Prior Years  Oty (Each) / Total Cost (\$ M )  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000	FY 2012  Oty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -  - / -	FY 2013   Qty (Each) / Total Cost (\$ M )	mplementation  FY 2014 Base  Qty (Each) / Total Cost (\$ M )  0 0 / 0.000 - / / / / / -	FY 2014 OCO Oty (Each) Total Cost (\$ 1 - / - / - / - /	Property of the first of the fi	FY 2015  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -  - / -	Installation   N   FY 2016	FY 2017  Oty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -  - / -	FY 2018  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -	To Complete  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -	Total  Qty (Each Total Cost (\$ 0 / 0
Installation: CH-47 D to Installation Cost All Prior Years FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017	F Conversion	Prior Years  Oty (Each) / Total Cost (\$ M)  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000	FY 2012  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -	FY 2013   Qty (Each) / Total Cost (\$ M )   0 / 0.00t   - / - / / - / / - / / - / / - / / - / / - / / - / / - / / -	mplementation  FY 2014 Base  Qty (Each) / Total Cost (\$ M )  0 0 / 0.000 - / / / / / / / -	FY 2014 OCO Qty (Each) Total Cost (\$ 1 - / - / - / - /	Property of the first of the fi	FY 2015  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -	Installation N  FY 2016  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -	FY 2017  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / / / / / / / -	FY 2018  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -	To Complete  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -	Total  Qty (Each Total Cost (\$ 0 / 0 - / - / - / - / - / - / - / -
Installation: CH-47 D to Installation Cost All Prior Years FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018	F Conversion	Prior Years  Oty (Each) / Total Cost (\$ M)  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000	FY 2012  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -	FY 2013   Qty (Each) / Total Cost (\$ M )   0 / 0.00t   - / / -   - / -     - / -   - / -       - / -     - / -     - / -       - / -       - / -       - / -       - / -       - / -       - / -	mplementation  FY 2014 Base  Qty (Each) / Total Cost (\$ M )  0 0 / 0.000 - / / / / / / / / / -	FY 2014 OCO Qty (Each) Total Cost (\$ 1 - / - / - / - / - / - /	Property of the first of the fi	FY 2015  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -	Installation N  FY 2016  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -	FY 2017  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -	FY 2018  Oty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -	To Complete  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -	Total  Qty (Each Total Cost (\$ 0 / 0
Installation: CH-47 D to Installation Cost All Prior Years FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017	F Conversion	Prior Years  Oty (Each) / Total Cost (\$ M)  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000  0 / 0.000	FY 2012  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -	FY 2013   Qty (Each) / Total Cost (\$ M )   0 / 0.00t   - / - / / - / / - / / - / / - / / - / / - / / - / / - / / -	mplementation  FY 2014 Base  Qty (Each) / Total Cost (\$ M )  0 0 / 0.000 - / / / / / / / -	FY 2014 OCO Qty (Each) Total Cost (\$ 1 - / - / - / - /	Property of the control of the contr	FY 2015  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -	Installation N  FY 2016  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -	FY 2017  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / / / / / / / -	FY 2018  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -	To Complete  Qty (Each) / Total Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -	Total  Qty (Each Total Cost (\$ 0 / 0 - / - / - / - / - / - / - / -

Installat	on Sc	hedule	•
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			FY 2	2012			FY 2	2013			FY:	2014			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018		'	
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	21	3	3	4	4	4	1	4	5	5	5	5	5	6	6	6	6	7	7	6	7	7	7	6	7	7	7	2	-	-	163
Out	9	4	2	3	3	3	3	4	4	4	1	4	5	5	5	5	5	6	6	6	6	7	7	6	7	7	7	6	7	16	163

LI A05101 - CH-47 Helicopter
Army

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Exhibit P-40 Advance Procurement, Budget Item Justification Sheet: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

A05101 - CH-47 Helicopter

J3 TA: Aircraft Procurement, Army / BA 01: Aircraft / B5A 20: Rotary A05101 - CH-47 Helicopte

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

Other Related Program Elements:

MDAP/MAIS Code(s):

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Resource Summary	Tears	F1 2012	F1 2013	Dase	000	IUlai	F1 2015	F1 2010	F1 2017	F1 2010	Complete	TOtal
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	149.637	120.956	83.346	98.376	-	98.376	102.361	102.134	8.707	-	-	665.517
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	149.637	120.956	83.346	98.376	-	98.376	102.361	102.134	8.707	-	-	665.517
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	149.637	120.956	83.346	98.376	-	98.376	102.361	102.134	8.707	-	-	665.517
	(The following	g Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget requests	s are documente	d elsewhere.)	•		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

	(THE IOHOWING	y Nesource Surr	ilialy lows ale ic	n iiiioiiiialioiiai p	uiposes only. II	ie corresponding	j buuget request	s are documented els	sewileie.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

# **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.

Item Sche	edule		P	rior Year	s		FY 2012			FY 2013		FY	' 2014 Ba	se	FY	2014 O	co	FY	2014 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	<b>Qty</b> (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
A05101 - CH-47 Helicopter	P10		-	122	149.637	-	45	120.956	-	38	83.346	-	28	98.376	-	-	-	-	28	98.376
Total Gross/Weapon System Cost					149.637			120.956			83.346			98.376			-			98.376
Item Scho	edule	FY 2015 FY 2016			,		FY 2017			FY 2018		To	Comple	te		Total				
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
A05101 - CH-47 Helicopter	P10		-	30	102.361	-	39	102.134	-	27	8.707	-	2	-	-	-	-	-	331	665.517

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LI A05101 - CH-47 Helicopter

Army

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P-1 Line #14

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

# LINCL ASSIFIED

	0110271	3011 12B		
Exhibit P-40 Advance Procurement, Budget Item Jus	tification Sheet: PB 2014 A	rmy		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BS	·	<b>P-1 Line Item Nomenclatur</b> A05101 - CH-47 Helicopter	-	
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Ite	ems:	Other Related Pr	ogram Elements:
MDAP/MAIS Code(s):				

Item Sche	dule			FY 2015			FY 2016			FY 2017			FY 2018		To	Comple	te		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	<b>Qty</b> (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	<b>Qty</b> (Each)	Total Cost
Total Gross/Weapon System Cost					102.361			102.134			8.707			-			-			665.517

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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

#### Justification:

FY 14 Base procurement dollars in the amount of \$98.4 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.

**UNCLASSIFIED** LI A05101 - CH-47 Helicopter Page 2 of 4

Exhibit P-10, Advance Procureme	ent Requirement	s Analysis	s (page 1 -	Budget Fu	ınding Ju	stification)	: PB 2014	Army	Date: Apri	il 2013		
Appropriation / Budget Activity / 2031A: Aircraft Procurement, Army Rotary	•	•	<b>P-1 Line I</b> A05101 - 0						Name):	enclature CH-47 Heli	(Item Numi	ber, Item
ID Code (A=Service Ready, B=Not Service Read	y):							,	,	·		•
First System (2014) Award Date: December 2003	First System (2 December 2006	014) Comple	tion Date:				terval Between	en Systems	:			
			Prior Years	FY 2012 (Each)	FY 2013 (Each)	FY 2014 (Each)	FY 2015 (Each)	FY 2016 (Each)	FY 2017 (Each)	FY 2018 (Each)	To Complete (Each)	Total (Each)
End Item Qua	ntity		122	45	38	28	30	39	27	2	-	331
Description:												
Cost Element	Procuremen Leadtime (Months)	When Rqd (Months)	All Prior Years (\$ M)	FY 2012 (\$ M)	FY 2013 (\$ M)	FY 2014 (\$ M)	FY 2015 (\$ M)	FY 2016 (\$ M)	FY 2017 (\$ M)	FY 2018 (\$ M)	To Complete (\$ M)	Total (\$ M)
Other			'			'						
Avionics	15	16	59.882	48.382	33.338	39.350	40.944	40.854	3.483	-	-	266.233
Airframe	13	14	89.755	72.574	50.008	59.026	61.417	61.280	5.224	-	-	399.284
Other Subtotal			149.637	120.956	83.346	98.376	102.361	102.134	8.707	-	-	665.517
Total Advance Procurement/Obligation Authority			149.637	120.956	83.346	98.376	102.361	102.134	8.707	-	-	665.517

LI A05101 - CH-47 Helicopter Army

Exhibit P-10, Advance Procurement Requirements Analysi	s (page 2 - Budget Funding Justifica	tion): PB 2014 Army Date:	April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary	P-1 Line Item Nomenclature: A05101 - CH-47 Helicopter	Numl	Nomenclature (Item Name, Item per): 01 - CH-47 Helicopter
ID Code (A=Service Ready, B=Not Service Ready) :		·	
		FY 2014	
	Unit Cost	Qty (Each)	Total Cost Request
End Item	-		28 98.370

				FY 2014		
Cost Elements	QPA (Each)	Procurement Leadtime (Months)	Unit Cost	Qty (Each)	Contract Forecast Date	Total Cost Request
Other						
Avionics	-	15	-	-	Dec 2012	39.350
Airframe	-	13	-	-	Dec 2012	59.026

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

**Prior** 

A00020 - MQ-1 Payload - UAS

FY 2014

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

FY 2014

FY 2014

**Other Related Program Elements:** 

To

106

MDAP/MAIS Code(s):

Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	170.710	146.983	231.508	97.781	-	97.781	72.009	59.680	53.900	11.200	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	170.710	146.983	231.508	97.781	-	97.781	72.009	59.680	53.900	11.200	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	170.710	146.983	231.508	97.781	-	97.781	72.009	59.680	53.900	11.200	Continuing	Continuing
	(The following	g Resource Sum	mary rows are for	informational p	urposes only. Th	e corresponding	budget request	s are documente	ed elsewhere.)		3	1
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	-	-	-	-	-	-	-	-	-	-	-	-

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **Description:**

MQ-1 Payload Unmanned Aircraft Systems (UAS) (A00020) budget line is shared between multiple Payload programs and two Product Managers (Robotic and Unmanned Sensors - RUS & Airborne Reconnaissance and Exploitation Systems - ARES). 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. STARLite, CSP, and Tactical Singals 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) Synthetic Aperture Radar/Ground Moving Target Indicator (SAR/GMTI) 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 Reconnaissance, Surveillance and Target Acquisition (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 GMTI 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 High Definition (HD) 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. 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

Page 1 of 11 P-1 Line #15

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

A00020 - MQ-1 Payload - UAS

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements:

#### MDAP/MAIS Code(s):

adversaries use of technology, changes. This flexible architecture allows for third party software applications to be integrated into the TSP system. The TSP system is a complementary system to the aerial and terrestrial Intelligence, Surveillance, and Reconnaissance (ISR) layers through direct interface with the Distributed Common Ground System - Army (DCGS-A) Information and Intelligence Enterprise (DI2E). 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. The TSP system operates in two modes, passive and active to provide an enhanced Aerial Precision Geolocation (APG) capability.

The Army Acquisition Objective for TSP is 95 systems

Item Sche	dule		P	rior Year	's		FY 2012			FY 2013		FY	2014 Ba	ise	FY	2014 O	co	FY	2014 To	otal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost
A00020 - MQ-1 Payload - UAS	P5, P5A, P21		-	-	170.710	-	-	146.983	-	-	231.508	-	-	97.781	-	-	-	-	-	97.781
Total Gross/Weapon System Cost					170.710			146.983			231.508			97.781			-			97.781
Item Sche	dule			FY 2015			FY 2016			FY 2017			FY 2018		To	Comple	te		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
A00020 - MQ-1 Payload - UAS	P5, P5A, P21		-	-	-	-	-	-	-	-	-	-	-	-		Continuing	,	,	Continuing	•
Total Gross/Weapon System Cost					72.009			59.680			53.900			11.200		Continuing			Continuing	]

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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

#### Justification:

FY 2014 base procurement dollars in the amount of \$97.781 million supports procurement of 8 STARLite ER, 8 CSP HD, and 16 TSP payloads along with initial spares, CSP HD retrofits, contractor logistics support and initial fielding support.

CSP HD and STARLite ER payloads support the Gray Eagle UAS fielding schedule for the 16-17th Units Equipped (UE).

TSP payloads support fielding to the Gray Eagle Fielding Schedule beginning in FY15 and beyond.

There are no FY 2014 OCO Procurement dollars.

LI A00020 - MQ-1 Payload - UAS

UNCLASSIFIED

Army Page 2 of 11

Exhibit P-5, Cost Analysis: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of Aircraft

A00020 - MQ-1 Payload - UAS

Item Nomenclature (Item Number - Item

Name, DODIC):

Date: April 2013

A00020 - MQ-1 Payload - UAS

											•	
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	170.710	146.983	231.508	97.781	-	97.781	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	170.710	146.983	231.508	97.781	-	97.781	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	170.710	146.983	231.508	97.781	-	97.781	-	-	-	-	Continuing	Continuing
	(The following	g Resource Sum	mary rows are fo	or informational p	ourposes only. Ti	he corresponding	g budget reques	ts are documente	ed elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	_	_	_	_	_	_	_	_	_	_	_	_

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

(Units in Thousands)

		All	Prior Yea	rs		FY 2012			FY 2013		F'	Y 2014 Bas	se	F	Y 2014 OC	0	F	Y 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost											•							•	
Recurring Cost																			
† CSP Hardware		755.000	52	39.277	771.000	24	18.504	889.000	32	28.448	904.000	8	7.232	-	-	-	904.000	8	7.23
CSP Battle Damaged Procurement		-	-	3.605	-	-	6.000	-	-	-	-	-	-	-	-	-	-	-	-
CSP HD Retrofit		-	-	-	-	-	-	-	-	6.437	-	-	7.505	-	-	-	-	-	7.50
CSP PMO Support		-	-	2.395	-	-	3.500	-	-	3.715	-	-	4.740	-	-	-	-	-	4.74
CSPProgram Management/ Eng Support		-	-	0.100	-	-	-	-	-	0.533	-	-	1.483	-	-	-	-	-	1.48
CSP Engineering Changes		-	-	-	-	-	1.782	-	-	3.033	-	-	3.165	-	-	-	-	-	3.16
CSP System Test & Eval		-	-	6.780	-	-	0.588	-	-	0.536	-	-	0.212	-	-	-	-	-	0.21
CSP Initial Spares		-	-	24.955	-	-	10.794	-	-	14.224	-	-	5.426	-	-	-	-	-	5.42
CSPInterim Contractor Support		-	-	19.563	-	-	5.977	-	-	0.385	-	-	3.910	-	-	-	-	-	3.91
CSP Initial Fielding Support		-	-	-	-	-	-	-	-	3.025	-	-	1.304	-	-	-	-	-	1.30
CSP Depot Facilitization		-	-	-	-	-	6.000	-	-	4.000	-	-	-	-	-	-	-	-	-
CSP Technical Data Packages		-	-	-	-	-	15.798	-	-	33.486	-	-	-	-	-	-	-	-	-

**UNCLASSIFIED** 

LI A00020 - MQ-1 Payload - UAS Page 3 of 11 Army

P-1 Line #15

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-5, Cost Analysis: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

A00020 - MQ-1 Payload - UAS

Date: April 2013

Item Nomenclature (Item Number - Item

Name, DODIC):

A00020 - MQ-1 Payload - UAS

		All	Prior Yea	irs		FY 2012			FY 2013		F	Y 2014 Bas	se	F'	Y 2014 OC	)	F	Y 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
† STARLite Hardware		658.000	49	32.223	711.000	24	17.064	759.000	32	24.288	791.000	8	6.328	-	-	-	791.000	8	6.3
Hardware Retrofits		-	-	-	-	-	7.728	-	-	11.013	-	-	-	-	-	-	-	-	-
STARLite Battle Damaged Procurement		-	-	-	-	-	4.800	-	-	-	-	-	-	-	-	-	-	-	-
STARLite PMO Support		-	-	2.405	-	-	3.500	-	-	2.794	-	-	1.495	-	-	-	-	-	1.4
Program Management/ Eng Support		-	-	1.394	-	-	0.276	-	-	0.251	-	-	0.853	-	-	-	-	-	0.8
Engineering Changes		-	-	3.460	-	-	1.956	-	-	2.619	-	-	0.836	-	-	-	-	-	0.8
System Test & Eval		-	-	2.256	-	-	0.588	-	-	0.274	-	-	0.250	-	-	-	-	-	0.2
Initial Spares		-	-	16.073	-	-	11.369	-	-	12.150	-	-	8.702	-	-	-	-	-	8.7
Interim Contractor Support		-	-	1.392	-	-	8.960	-	-	-	-	-	1.825	-	-	-	-	-	1.8
Initial Fielding Support		-	-	-	-	-	-	-	-	3.011	-	-	2.013	-	-	-	-	-	2.0
Depot Facilitization		-	-	-	-	-	6.000	-	-	4.000	-	-	-	-	-	-	-	-	
Technical Data Packages		-	-	-	-	-	15.799	-	-	33.486	-	-	-	-	-	-	-	-	
† TSP Hardware		-	-	-	-	-	-	1,752.000	12	21.024	1,777.000	16	28.432	-	-	-	1,777.000	16	28.4
TSP Program Management/ Eng Support		-	-	-	-	-	-	-	-	4.586	-	-	1.834	-	-	-	-	-	1.8
TSP Engineering Changes		-	-	-	-	-	-	-	-	0.500	-	-	0.390	-	-	-	-	-	0.3
TSPSystem Test & Eval		-	-	-	-	-	-	-	-	3.370	-	-	1.412	-	-	-	-	-	1.4
TSP Initial Spares		-	-	-	-	-	-	-	-	2.080	-	-	3.896	-	-	-	-	-	3.8
TSP Training		-	-	-	-	-	-	-	-	0.570	-	-	0.550	-	-	-	-	-	0.5
TSP Data		-	-	-	-	-	-	-	-	4.340	-	-	1.300	-	-	-	-	-	1.3
TSP Initial Fielding Support		-	-	-	-	-	-	-	-	3.330	-	-	1.808	-	-	-	-	-	1.8
TSP Interim Contractor Support		-	-	-	-	-	-	-	-	-	-	-	0.880	-	-	-	-	-	0.8
TSP Other		-	-	14.832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Recurring Cost	Ш			170.710			146.983			231.508			97.781			-			97.7
Total Flyaway Cost				170.710			146.983			231.508			97.781			-			97.7
ross Weapon System ost				170.710			146.983			231.508			97.781			=			97.7

LI A00020 - MQ-1 Payload - UAS Army UNCLASSIFIED
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Exhibit P-5, Cost Analysis: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of Aircraft

A00020 - MQ-1 Payload - UAS

Name, DODIC): A00020 - MQ-1 Payload - UAS

Date: April 2013

			FY 2015			FY 2016			FY 2017			FY 2018		т	o Complete			Total Cost	
			F1 2015			F1 2010			F1 2011			F1 2010		J'	o Complete			TOLAI COSL	
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Tota Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
† CSP Hardware		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CSP Battle Damaged Procurement		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CSP HD Retrofit		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CSP PMO Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CSPProgram Management/ Eng Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CSP Engineering Changes		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CSP System Test & Eval		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CSP Initial Spares		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CSPInterim Contractor Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CSP Initial Fielding Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CSP Depot Facilitization		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CSP Technical Data Packages			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† STARLite Hardware		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hardware Retrofits		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
STARLite Battle Damaged Procurement		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
STARLite PMO Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Program Management/ Eng Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Engineering Changes		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
System Test & Eval		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Initial Spares		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Interim Contractor Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Initial Fielding Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Depot Facilitization		-	-	_	_	-	_	-	-	-	_	-	_	_	_	_	_	-	

LI A00020 - MQ-1 Payload - UAS Army UNCLASSIFIED
Page 5 of 11

Exhibit P-5, Cost Analysis: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item Name, DODIC):

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of Aircraft

A00020 - MQ-1 Payload - UAS

A00020 - MQ-1 Payload - UAS

Date: April 2013

																	- ,		
			FY 2015			FY 2016			FY 2017			FY 2018		Т	o Complete	е		Total Cost	i
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Technical Data Packages		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† TSP Hardware		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TSP Program Management/ Eng Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TSP Engineering Changes		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TSPSystem Test & Eval		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TSP Initial Spares		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TSP Training		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TSP Data		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TSP Initial Fielding Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TSP Interim Contractor Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TSP Other		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Recurring Cost				-			-			-			-			-			-
Total Flyaway Cost				-			-			-			-			-			-
Gross Weapon System Cost				-			-			=			-		Continuing			Continuing	

P-5 Remarks:

LI A00020 - MQ-1 Payload - UAS

Army

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army

Date: April 2013

Item Nomenclature:

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of Aircraft

A00020 - MQ-1 Payload - UAS

A00020 - MQ-1 Payload - UAS

Cost Elements († indicates the presence of a P-21)	0000	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn	RFP Issue Date
†CSP Hardware		2012	Raytheon / McKinney, TX	C / IDIQ	CECOM, APG	May 2012	May 2013	24	771.000	N		
†CSP Hardware		2013	Raytheon / McKinney, TX	C / IDIQ	CECOM, APG	Mar 2013	Mar 2014	32	889.000	N		
†CSP Hardware		2014	Raytheon / McKinney, TX	C / IDIQ	CECOM, APG	Mar 2014	Mar 2015	8	904.000	N		
†STARLite Hardware		2012	Northrop Grumman / Linthicum, MD	C / FFP	CECOM, APG	Apr 2012	Apr 2013	24	711.000	N		
†STARLite Hardware		2013	Northrop Grumman / Linthicum, MD	SS / FFP	CECOM, APG	Mar 2013	Mar 2014	32	759.000	N		
†STARLite Hardware		2014	Northrop Grumman / Linthicum, MD	SS / FFP	CECOM, APG	Mar 2014	Mar 2015	8	791.000	N		
†TSP Hardware		2013	BAE Systems / Nashua, NH	SS / FFP	CECOM, APG	Jun 2013	Sep 2014	12	1,752.000	N		
†TSP Hardware		2014	BAE Systems / Nashua, NH	SS / FFP	CECOM, APG	Mar 2014	Jun 2015	16	1,777.000	N		

Exhibit P-21, Budget Production Schedule: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of Aircraft

			Cost Elen	nents																											
			(Units in E									Fiscal Y	ear 2012	!										Fiscal Y	ear 2013)	;					
	l				ACCEP									C	alendar	Year 201	2								Caler	ndar Year	r 2013				
0 C 0	R	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N N	J U	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	N J	J U	A U G	S E P	B A L
CS	SP Ha	ırdware																													
	1	2012	ARMY (XVIII)	24	-	24	-	-	-	-	-	-	-	Α -	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	14
	1	2013	ARMY (XIX)	32	-	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Α -	-	-	-	-	-	-	32
	1	2014	ARMY (XX)	8	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
ST	ΓARLi	te Hardw	are																												
	2	2012	ARMY (XXI)	24	-	24	-	-	-	-	-	-	Α -	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	12
	2	2013	ARMY (XXII)	32	-	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Α -	-	-	-	-	-	-	32
	2	2014	ARMY (XXIII)	8	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
TS	SP Ha	rdware						•																							
	3	2013	ARMY (XXIV)	12	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	12
	3	2014	ARMY (XXV)	16	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16
			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	J J	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

LI A00020 - MQ-1 Payload - UAS Army UNCLASSIFIED
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Exhibit P-21, Budget Production Schedule: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 02: Modification of A00020 - MQ-1 Payload - UAS A00020 - MQ-1 Payload - UAS Aircraft / BSA 10: Modification Of Aircraft Cost Elements Fiscal Year 2014 Fiscal Year 2015 (Units in Each) ACCEP Calendar Year 2014 Calendar Year 2015 PRIOR BAL М 0 C 0 В F DUE 0 TO 1 PROC OCT AS OF С Е Ε A R P R Ü U E C 0 V Е Р U U U E R 0 A Y U A N Е A R A Y A L Α FY SERVICE<sup>‡</sup> QTY R N # 2013 1 OCT G CSP Hardware ARMY 24 10 14 2 2 2 2 2 2012 2 2 32 32 3 1 2013 ARMY (XIX) 3 --8 2 2 A -1 2014 ARMY (XX) STARLite Hardware 2 2012 ARMY (XXI) 24 12 12 2 2 2 2 2 2 ARMY (XXII) 32 32 3 2013 2 ARMY (XXIII) TSP Hardware 3 2013 ARMY 12 12 3 2014 ARMY 16 16 Α -2 2 (XXV) О В P R Р U U U 0 U N U U G E P О Е Α Е A R A Y Ε С Е A N Е A R A Y A L R G

LI A00020 - MQ-1 Payload - UAS Army

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Exh	ibi	it P-2	21, Bud	get P	rodu	ction	Sche	dule:	PB 2	014 A	rmy													Date	e: Apr	il 201	3				
203	1A	: Air	tion / Bucraft Pro SA 10: N	curer	nent,	Army	/BA	02: M	ib Ac odific	<b>tivity</b> ation	: of				Nom -1 Pa										<b>Nom</b> 020 -			: load -	UAS		
			Cost Elem (Units in E									Fiscal Y	ear 2010	6										Fiscal Y	ear 2017						
١.					ACCEP PRIOR										Calenda	Year 20	16			,					Caler	dar Yea	r 2017		,		
O   F	VI F R #	FY	SERVICE <sup>‡</sup>	PROC QTY	TO 1 OCT	DUE AS OF 1 OCT	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
_		lware	1																									1			
1		2012	ARMY (XVIII)	24	24	-																									-
1		2013	ARMY (XIX)	32	32	-																									-
1		2014	ARMY (XX)	8	8	-																									-
STAF	RLite	Hardwa																													
2			ARMY (XXI)	24	24	-																									-
2		2013	ARMY (XXII)	32	32	-																									-
2		2014	ARMY (XXIII)	8	8	-																									-
TSP	_																														
3			ARMY (XXIV)	12																											-
3		2014	ARMY (XXV)	16	8	8	2	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	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	U L	A U G	S E P	B A L

LI A00020 - MQ-1 Payload - UAS Army UNCLASSIFIED
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Exhibit P-21, Budget Production Schedule: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 02: Modification of A00020 - MQ-1 Payload - UAS A00020 - MQ-1 Payload - UAS Aircraft / BSA 10: Modification Of Aircraft

		Product	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
						Init	ial			Reo	rder	
MFI #	MFR Name - Location	MSR	1-8-5	MAX	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	1.00	24.00	180.00	-	-	-	-	-	6	12	18
2	Northrop Grumman - Linthicum, MD	8.00	24.00	70.00	-	-	-	-	-	6	12	18
3	BAE Systems - Nashua, NH	12.00	24.00	72.00	-	9	15	24	-	6	15	21

<sup>&</sup>quot;A" in the Delivery Schedule indicated the Contract Award Date.

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

#### Service/Agency Suffixes:

(XVIII) BASE

(XIX) BASE

(XX) BASE

(XXI) BASE (XXII) BASE

(XXIII) BASE

(XXIV) BASE

(XXV) BASE

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LI A00020 - MQ-1 Payload - UAS 116 Army Page 11 of 11 P-1 Line #15

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

AZ2000 - Guardrail Mods (MIP)

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

**Other Related Program Elements:** 

MDAP/MAIS Code(s):

Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	743.358	27.575	16.272	10.262	-	10.262	14.311	17.806	11.272	11.362	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	743.358	27.575	16.272	10.262	-	10.262	14.311	17.806	11.272	11.362	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	743.358	27.575	16.272	10.262	-	10.262	14.311	17.806	11.272	11.362	Continuing	Continuing
	(The following	g Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	-	-	-	-	-	-	-	-	-	-	-	-

EV 2014 | FY 2014 | EV 2014

#### **Description:**

- Guardrail Common Sensor (GR/CS) is a tactical fixed-wing, airborne, Signals Intelligence (SIGINT) collection and precision targeting location system. The GR/CS systems are fielded to four Aerial Exploitation Battalions (AEBs) which are under the command of INSCOM. GR/CS 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. The purpose of the Guardrail Modernization Program is to significantly improve the system's tactical Irregular Warfare capability, while maintaining its Full Spectrum performance.

The GR Modernization program includes three main efforts: cockpit modernization, external aircraft modifications, and payload upgrades. Initial planning established an overall schedule to integrate all of these efforts, while minimizing impacts of emerging world-wide threats.

The GR/CS modernization effort provides A-Kits and sensor upgrade for the fleet of 14 mission aircraft (designated RC-12X) with capabilities that allow GR/CS to keep pace with a flexible enemy. Communications High Accuracy Location Subsystem-Compact (CHALS-C) provides precision geo-location and supports Theater for Net-Centric Geo-location (TNG) Airborne Overhead Cooperative Operations. Enhanced Situational Awareness (ESA) provides modern airborne Communications Intelligence (COMINT) subsystem and infrastructure. High Band COMINT (HBC) provides enhanced capability to intercept, locate, and exploit high frequency COMINT signals. Special Signals (SS) provides enhanced X-Modular Interactive Data Acquisition System (X-MIDAS) hardware architecture and capability to intercept and exploit special signals. Electronics Intelligence (ELINT) is standardized in a P-Pod configuration on 14 aircraft and provides Advanced Quick Look (AQL) processing B-Kits. FY14 efforts includes recurring and non-recurring engineering to integrate Full Motion Video (FMV) A and B-Kits.

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 $<sup>^{\#}</sup>$  FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

UNCLASSIFIED Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: AZ2000 - Guardrail Mods (MIP) Modification Of Aircraft **Other Related Program Elements:** ID Code (A=Service Ready, B=Not Service Ready) : Program Elements for Code B Items: MDAP/MAIS Code(s): FY 2014 **FY 2014** FY 2014 **Secondary Distribution** FY 2012 **FY 2013** oco Total FY 2015 FY 2016 FY 2017 FY 2018 Base Armv Quantity Total Obligation Authority 27.575 16.272 10.262 10.262 14.311 17.806 11.272 11 362 FY 2012 FY 2013 **FY 2014 Base FY 2014 OCO** FY 2014 Total Item Schedule **Prior Years** ID **Unit Cost** Total Cost **Unit Cost** Total Cost **Unit Cost** Total Cost **Unit Cost** Qty Total Cost **Unit Cost** Qty Total Cost **Unit Cost** Qty Total Cost CD Item Nomenclature\* **Exhibits** (\$K) (Each) (\$ M) РЗА 0 - Guardrail MODS MIP 27.575 10.262 743.358 16.272 10.262 Total Gross/Weapon 743.358 27.575 16.272 10.262 10.262 System Cost FY 2015 **FY 2016** FY 2017 **FY 2018** Item Schedule To Complete Total ID **Unit Cost** Total Cost Qty Total Cost **Unit Cost** Qty Total Cost Unit Cost Qty **Total Cost Unit Cost** Qty Total Cost **Unit Cost** Qty **Unit Cost** Qty Total Cost CD Item Nomenclature\* **Exhibits** (\$ K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$ K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) 0 - Guardrail MODS MIP P3A 17.806 11.272 11.362 14.311 Continuing Continuing 14.311 17.806 11.272 11.362 Total Gross/Weapon Continuing Continuing System Cost \*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P40. Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding Justification: FY14 Base procurement funding in the amount of \$10.262 million retrofits remaining three aircraft and provides recurring and non-recurring engineering and equips one aircraft with Full Motion Video (FMV) capabilities. Retrofits include integration of Guardrail Interoperability Airborne Network Terminal (GIANT) data links, X-Modular Interactive Data Acquisition System (X-Midas) V3, and Airborne Precision Geolocation (APG) improvements, resulting in the final GR Mod configuration on all 14 systems to better support operations against emerging world-wide threats. These efforts provide the necessary field installation support, new equipment training, contractor field support, and spares to effectively operate the system. OCONUS training, field service representative support, and repairs will be provided to support operations to better support against emerging worldwide threats. FY 2014 is the completion of the integration and fielding of the APG subsystems on 14 deployed aircraft which is also included in the Enhanced Situational Awareness (ESA) Subsystem Mod.

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LI AZ2000 - Guardrail Mods (MIP) Army

P-1 Line #16

Exhibit P-3A, Individual Modification: PB 2014 Army

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

P-1 Line Item Nomenclature:
AZ2000 - Guardrail Mods (MIP)

(Modification Number - Modification Title):
0 - Guardrail MODS MIP

Models of Systems Affected: 1	-14		Type Modi	fication: 0				Related R	DT&E PEs:			
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	743.358	27.575	16.272	10.262	-	10.262	14.311	17.806	11.272	11.362	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	743.358	27.575	16.272	10.262	-	10.262	14.311	17.806	11.272	11.362	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	743.358	27.575	16.272	10.262	-	10.262	14.311	17.806	11.272	11.362	Continuing	Continuing
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Ti	ne corresponding	budget request	s are documente	d elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	_	_	_	_	_	_	_	_	_	_	_	_

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## **Description:**

(Units in Thousands)

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

Development Status/Major Development Milestones									
Date	Title	Description							
Aug 2012	None	N/A							

P-1 Line #16

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AZ2000 - Guardrail Mods (MIP)

Date: April 2013

Modification Nomenclature

(Modification Number - Modification

Title):

0 - Guardrail MODS MIP

Models of Systems Affected: 1-14	Type Modification: 0	Related RDT&E	PEs:
INIQUEIS OF SYSTEMS ATTECTED. 1-14	Type Woullcation. U	INCIALCU INDIO	<b>.</b>

would of Systems Affected. 1-14		JII. U										
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) Total Cost (\$ I							
Procurement				•								,
Enhanced Situational Awareness (ESA) Subsystem												
A Kits												
Recurring												
NRE ESA	0 / 139.297	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 139.2
Recur ESA B-Kit	14 / 89.548	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 89.5
Recur A-Kit (Racks/Cable)	14 / 54.385	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 54.3
Recur A-Kit (Airframe)	7 / 50.348	4 / 5.600	3 / 4.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 60.6
Recur Nav/Timing	14 / 20.848	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 20.8
NRE Data Link Air	0 / 25.664	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 25.6
Recur Data Link Ground	0 / 1.830	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /1.8
Spare ESA B-Kit	7 / 12.323	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 12.3
Eng Lab Asset ESA B-Kit	7 / 4.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 4.9
Aircraft Upgrade Cockpit	7 / 33.101	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 33.1
System Integration	7 / 18.700	- / 10.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 29.2
Retrofit	0 / 0.000	- / -	4 / 3.480	3 / 4.300	- / -	3 / 4.300	- / -	- / -	- / -	- / -	- / -	7 / 7.7
Sys Assessment/Test Spt	0 / 13.502	- /2.600	- /2.500	- / 0.365	- / -	- / 0.365	- / -	- / -	- / -	- / -	- / -	- / 18.9
Training Supt	0 / 4.400	- / 1.500	- / 1.500	- / 1.000	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- /8.4
Fielding (CHALS/ESA/HBC)	0 / 21.199	- /3.790	3 / 1.200	- / 1.362	- / -	- / 1.362	- / -	- / -	- / -	- / -	- / -	3 / 27.5
PM Support	0 / 72.994	- / 3.285	- /2.492	- / 1.000	- / -	- / 1.000	- / -	- / -	- / -	- / -	- / -	- /79.7
Production FSR support	0 / 0.000	- / -	- / -	- / 0.335	- / -	- / 0.335	- / -	- / -	- / -	- / -	- / -	- /0.3
Initial Spares Provision	0 / 3.951	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /3.9
Subtotal Recurring	77 / 566.990	4 / 27.275	10 / 15.872	3 / 8.362	- / -	3/8.362	- / -	- / -	- / -	- / -	- / -	94 / 618.4
Total, Enhanced Situational Awareness (ESA) Subsystem	77 / 566.990	4 / 27.275	10 / 15.872	3 / 8.362	- / -	3 / 8.362	- / -	- / -	- / -	- / -	- / -	94 / 618.4
Full Motion Video (FMV)												
A Kits												
Recurring												-
Kit Quantity	0 / 0.000	- / -	- / -	1 / 0.200	- / -	1 / 0.200	9 / 1.800	4 / 0.800	- / -	- / -	- / -	14 / 2.8
Fielding/Training	0 / 0.000	- / -	- / -	- / -	- / -	- / -	4 / 0.400	-	4 / 0.900	- / -	- / -	14 / 1.9
Integration & Test	0 / 0.000	- / -	- / -	- / -	- / -	- / -	6 / 2.500		1 / 0.325	- / -	- / -	14 / 5.1
PM Costs	0 / 0.000	- / -	- / -	- /0.100	- / -	- /0.100	- / 1.365	- / 1.725	- / -	- / -	- / -	- /3.1
Spares/repairs	0 / 0.000		- / -	- / -	- / -	- / -	- / 0.646		- / 0.500	- / -	- / -	- /3.0

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P-1 Line #16

Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AZ2000 - Guardrail Mods (MIP)

Date: April 2013

**Modification Nomenclature** 

(Modification Number - Modification

Title):

0 - Guardrail MODS MIP

Models of Systems Affected: 1-14 Type Modification: 0 Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) /	Qty (Each) / Total Cost (\$ M)	Qty (Each) /	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) /	Qty (Each) /	Qty (Each) / Total Cost (\$ M)	Qty (Each) /	Qty (Each) /	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M
Subtotal Recurring	0/0.000	- / -	- / -	1/0.300	- / -	1/0.300	19 / 6.711	17 / 7.300	5 / 1.725	- / -	- / -	42 / 16.036
Non-Recurring			<u> </u>								<u> </u>	
Equipment	0 / 0.000	- / -	- / -	- / 0.600	- / -	- / 0.600	- / 0.600	- / -	- / -	- / -	- / -	- /1.200
Subtotal Non-Recurring	0/0.000	- / -	- / -	- /0.600	- / -	- /0.600	- /0.600	- / -	- / -	- / -	- / -	- /1.200
B Kits			<u> </u>						<u>I</u>		<u> </u>	
Recurring												
Kit Quantity	0 / 0.000	- / -	- / -	1 / 1.000	- / -	1 / 1.000	7 / 7.000	6 / 6.000	- / -	- / -	- / -	14 / 14.000
Subtotal Recurring	0/0.000	- / -	- / -	1/1.000	- / -	1/1.000	7/7.000	6/6.000	- / -	- / -	- / -	14 / 14.000
Total, Full Motion Video (FMV)	0/0.000	- / -	- / -	2/1.900	- / -	2/1.900	26 / 14.311	23 / 13.300	5/1.725	- / -	- / -	56 / 31.236
Moderization Signal Enhancement	070.000	- / -		27 1.300	- , -	27 1.300	207 14.511	237 13.300	07 1.720	- / -	_ , -	307 31.230
A Kits												
Recurring												
Installation Kits	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- /1.490	- /6.000	- /7.000	- / -	- / 14.490
Training Equipment	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.905	- / 0.725	- /1.050	- / -	- / 2.680
Support Equipment	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.300	- / 0.600	- / 0.950	- / -	- / 1.850
PM Support	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.900	- / 1.222	- /1.262	- / -	- / 3.384
Subtotal Recurring	0/0.000	- / -	- / -	- / -	- / -	- / -	- / -	- /3.595	- /8.547	- /10.262	- / -	- /22.404
Non-Recurring												
Installation Kits	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.911	- / 1.000	- / 1.100	- / -	- /3.011
Subtotal Non-Recurring	0/0.000	- / -	- / -	- / -	- / -	- / -	- / -	- /0.911	- /1.000	- /1.100	- / -	- /3.011
Total, Moderization Signal Enhancement	0/0.000	- / -	- / -	- / -	- / -	- / -	- / -	- /4.506	- /9.547	- /11.362	- / -	- /25.415
Total Procurement, All Modifications	77 / 566.990	4 / 27.275	10 / 15.872	5 / 10.262	- / -	5 / 10.262	26 / 14.311	23 / 17.806	5 / 11.272	- /11.362	- / -	150 / 675.150
Total Procurement and Support	566.990	27.275	15.872	10.262	-	10.262	14.311	17.806	11.272	11.362	-	675.150
Enhanced Situational Awareness (ESA) Subsystem Installation Cost	10 / 2.522	- / 0.300	4 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 3.222
Full Motion Video (FMV) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Moderization Signal Enhancement Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total Installation Cost	10 / 2.522	- /0.300	4 / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 3.222
Total Cost (Procurement + Support + Installation)	569.512	27.575	16.272	10.262	-	10.262	14.311	17.806	11.272	11.362	-	678.372

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Exh	bit P-	-3A, I	Indivi	dua	al M	odif	icati	on: F	PB 2	2014 Arı	ny														Date	: Ap	ril 201	3				
203		rcraft	Proc	ure	mer	ıt, Ar	my /	BAC		Sub Act Modifica				_		Nome drail N		-	)						(Mod Title	difica ):	i <b>tion N</b> ition N drail M	lumb	er - M	-	ation	
Mod	els of	f Sys	tems	Af	fect	ed:	1-14					Type	Modi	ficati	on: 0							Rela	ated	RDT	&E P	Es:						
Manu	facture	er Info	rmatio	n: E	Enha	nced	Situa	tional	Awa	areness (	ESA	) Subsy	stem																			
Manu	facture	r Nam	e: .														Manuf	acture	r Location	on: .												
Admi	nistrativ	e Lea	dtime (	in M	1onth	s): 3											Produ	ction L	eadtime	in N	Months): 1	12										
	Dat	tes				FY 2	012			FY	2013			FY	2014			FY	2015			FY 20	016			FY	2017			FY	2018	
Contr	act Dat	es																														
Deliv	ery Date	es																														
	•																															
Insta	lation:	Enha	nced S	ituat	tiona	l Awa	renes	s (ESA	A) Su	ıbsystem		Method	d of In	pleme	ntatior	ո։ .		,				Insta	llation	n Nam	ne:							
							Pr	ior Ye	ars	FY 20	12	FY 20	013	FY 2 Ba			2014 CO		2014 otal	F١	Y 2015	FY	2016		FY 201	17	FY 20	18	Tom <sub> </sub>		То	tal
Insta	lation	Cost						Qty (Each		Qty (Eac		Qty (Ea		Qty (E Total Co			Each) / ost (\$ M )		(Each) / Cost (\$ M)		y (Each) / Cost (\$ M )		(Each) / Cost (\$ N		Qty (Each		Qty (Ead		Qty (E		Qty (E	Each) / ost (\$ M
All Prio	Years							0/0	0.510	0 /	0.000	0	/ 0.000		0 / 0.000	-	/ -		0 / 0.000		0 / 0.000		0 / 0.0	00	0/0	0.000	0 /	0.000	(	0.000		0 / 0.51
FY 201	2							3 /	1.314	- /	0.300	4	/ 0.400	-	/ -	-	/ -		- / -		- / -		- / -		- /	' -	-	/ -	-	/ -		7 / 2.01
FY 201									0.373	-			/ -		1 -	_	1 -		- / -		- / -		- / -		- /			1 -		/ -		7 / 0.37
FY 201									0.325	-			/ -		/ -		/ -		- / -		- / -		- / -		- /			/ -		/ -		/ 0.32
FY 201									0.000	-			/ -		/ -	_	/ -		- / -		- / -		- / -		- /			/ -		/ -		- / -
FY 201									0.000	-			/ -		/ -	_	/ -		- / -		- / -		- / -		- /	_		/ -		/ -		- / -
FY 201							_		0.000	-			/ -		/ -	_	/ -		- / -		- / -		- / -		- /			/ -		/ -		- / -
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Total	ipiete						+		2.522		0.300		/ 0.400		/ -	-	/ -		- / -		- / -		- / -		- /	_		/ -		/ -		4 / 3.22
	lation	Sched	dule							,	0.000		7 0.100						<u> </u>													., 0.22
			FY	2012	2			FY	201	3		FY	2014			FY	2015			FY 2	2016			FY 2	2017			FY	2018			
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In	14	_	-	<u> </u>		-	_	-	+-	_	-	-	-	<b> </b> -	-	-	-	-	-	_	† <u>-</u> †	-	-	-	-	-	-	-	-	-	-	14
Out	7	_	3	<u> </u>	.	_	4		Τ.		<u> </u>	<u> </u>	-	<b> </b> -	<b> </b> -	-	_	_	_	_	-	_	_	_	-	† <u>-</u>	<u> </u>	-	-	† <u>-</u>	_	14
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Exhibi	it P-	3A, I	ndivi	dual	Modif	icatio	n: PB 2	2014 A	rmy														Date	: Ap	ril 201	3				
	: Air	craft	Proc	ureme	ent, Ai	rmy / I	udget S BA 02: I craft								<b>encla</b> t Mods								(Mod Title)	difica ):	ation N ation N drail M	umbe	er - M		ation	
Model	s of	Sys	tems	Affe	cted:	1-14				Type	Modi	fication	on: 0							Re	lated	RDT	T&E P	Es:						
Manufa							o (FMV)																							
Manufac	cturer	Name	====== e: .				` ,								Manu	facture	r Locati	on: .												
Adminis	trativ	e Lead	dtime (	in Mon	ths):										Produ	ction L	eadtime	e (in Mo	nths)	:										
	Dat				FY 2	2012		F	Y 2013	<u> </u>		FY	2014			FY 2			/	FY 2	2016			FY	2017			FY	2018	
Contract					• • •			•																						
Delivery																														
				1			ı											- '									1			
Installat	tion:	Full M	otion \	/ideo (	FMV)					Method	l of Im	pleme	ntation	:.						Inst	allatio	n Nar	me:							
				`	,	Pri	or Years	FY 2	012	FY 20	)13	FY 2 Ba	2014 se		2014 CO		2014 otal	FY	2015	F'	Y 2016		FY 201	7	FY 20	18	To		To	tal
Installat	tion (	Cost				Qt Total	y (Each) / ' Cost (\$ M )	Qty (E		Qty (Ea		Qty (E	ach) /		(Each) /		Each) /	Qty (	Each) /		y (Each)	/ M ) To	Qty (Each		Qty (Eac		Qty (Ea	ach) /		Each) /
All Prior Ye	ears						0 / 0.000		0.000		/ 0.000		0 / 0.000		- / -		0 / 0.000		0 / 0.0	-	0 / 0.0			0.000		0.000		/ 0.000		0 / 0.000
FY 2012							0 / 0.000	-	/ -	-	/ -	-	/ -		- / -		- / -		/ -		- /	-	- /	-	-	/ -	-	/ -	-	/ -
FY 2013							0 / 0.000	-	/ -	-	/ -	-	/ -		- / -		- / -		/ -		- /	-	- /	-	-	/ -	-	/ -	-	/ -
FY 2014							0 / 0.000		/ -		/ -		/ -		- / -		- / -		/ -	_	- /		- /			/ -		/ -		/ -
FY 2015							0 / 0.000		1 -	-	/ -		/ -		- / -	+	- / -	+	/ -		- /		- /	_		1 -		/ -		/ -
FY 2016 FY 2017							0 / 0.000		/ -		/ -		/ -		- / -		- / -		/ -	_	- /		- /	_		/ - / -		/ -		/ -
FY 2017							0 / 0.000		/ -	-	/ -		/ -		- / -	-	- / -	+	/ -	_	- /		- /	_		/ -		/ -		/ -
To Comple	ete						0 / 0.000		/ -	-	/ -		/ -		- / -		- / -		/ -		- /		- /			/ -		/ -		/ -
Total							0 / 0.000		1 -	_	/ -		/ -		- / -		- / -		/ -	_	- /		- /	_	-	1 -		/ -		/ -
Installat	tion S	Sched	ule								'																			
			FY	2012			FY 201	3		FY	2014			FY	2015			FY 20	16			FY	2017			FY	2018			
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Exhi	bit P-	3A, I	ndivi	dual	Modi	ficatio	on: P	B 20	14 Army													Date: A	pril 20	013				
2031		craft	Proc	urem	ent, A	rmy /	BA 0		<b>ib Activity</b> odification			<b>Line Ite</b> 2000 - Gu			-							<b>Modific</b> ( <i>Modific</i> <i>Title</i> ): 0 - Gua	ation	Numb	er -	- Modific	ation	
Mod	els of	Sys	tems	Affe	cted:	1-14				Type I	Modi	fication:	0						Rela	ated RI	DT8	E PEs						
Manu	facture	r Info	rmatic	n: Mo	derizat	ion Si	gnal E	nhand	cement																			
Manu	facturer	Name	e: TBD											Manu	acture	r Locatio	n: TB	BD										
Admir	nistrative	e Lead	dtime (	in Mor	nths):									Produ	ction L	eadtime	(in M	lonths):										
	Date	tes			FY	2012			FY 2013	1		FY 201	4		FY 2	2015		-	FY 20	16		F	Y 201	7		FY	2018	
Contr	act Date	es																										
Delive	ery Date	es																										
																												-
				Ciana	ol Enha	nceme	nt			Method	d of Im	plementat	ion: TE	3D					Insta	llation N	lam	e:						
Instal	lation:	Mode	rizatior	i Signa	ai Liilla	HOCHIC						•			_								1					
Insta	lation:	Mode	rization	i Sigila	ai Liilla		ior Yea	ırs	FY 2012	FY 20	013	FY 2014 Base	-	Y 2014 OCO		2014 otal	FY	2015	FY	2016	F	Y 2017	FY	2018	C	To complete	To	tal
	lation:		rization	1 Signa	ai Liilla	Pri		1	FY 2012  Qty (Each) / Total Cost (\$ M)	FY 20 Qty (Ea Total Cost	ach) /		/ Q:		Qty (		Qty	' 2015 (Each) / Cost (\$ M)	Qty	2016 (Each) /	Qt	Y 2017 ty (Each) / / Cost (\$ M)	Qty (	2018 (Each) /	Q			Each) /
	lation C		rization	i Signa	ат Стита	Pri	ior Yea	/ M) T	Qty (Each) /	Qty (Ea	ach) /	Base  Qty (Each)	/ Q: M) Tota	OCO	Qty (I	each) /	Qty	(Each) /	Qty	(Each) /	Qt	y (Each) /	Qty (	(Each) /	Q: Tota	complete Oty (Each) /	Qty (E Total Co	Each) / ost (\$ M
Instal	lation C		rization	i Sigila	ат Еппа	Pri	ior Yea ty (Each)	M) T	Qty (Each) / Total Cost (\$ M )	Qty (Ea Total Cost	ach) / t (\$ M )	Base Qty (Each) Total Cost (\$	/ Q: M ) Tota	OCO Oty (Each) / al Cost (\$ M)	Qty (I	Each) /	Qty	(Each) / Cost (\$ M )	Qty	(Each) / Cost (\$ M )	Qt	ty (Each) / I Cost (\$ M )	Qty ( Total C	(Each) / Cost (\$ M )	Q: Tota	Complete Oty (Each) / al Cost (\$ M)	Qty (E Total Co	Each) / ost (\$ M
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Instal All Prior FY 201: FY 201: FY 201: FY 201: FY 201: FY 201: To Com Total	Ilation C Years 2 3 4 5 6 7 8 pplete	Cost	ule FY:	2012		Pri Q Tota	ty (Each) // Cost (\$ 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 FY 2	(M) 7.000 .000 .000 .000 .000 .000 .000 .00	Qty (Each) / Total Cost (\$ M ) 0 / 0.000 - / / / / / / / / / / / / -	Oty (Ea Total Cost)  0	ach) / t (\$ M) / 0.000 / - / - / - / - / - / - / - / - / -	Base	/ QQ Total	OCO  hty (Each) / al Cost (\$ M )  - / - /	To Qty (I Total Co	Dtal  Each) / ost (\$ M )  0 / 0.000  -	Qty Total C	(Each) / Cost (\$ M ) 0 / 0.000 - / - / - / - / - / - / - / - / - /	Qty Total C	(Each) / Cost (\$ M ) 0 / 0.000 - / / / / / / / / / / -	Qt Tota	y (Each) / / Cost (\$ M ) 0 / 0.000 - / / / / / / / / / / / / / -	Qty (Total C	(Each) / Cost (\$ M ) 0 / 0.000 - / -	Q Total	Omplete Oty (Each) / lat Cost (\$ M )  0 / 0.000  - / -	Qty (E Total Co.	Each) / ost (\$ M 0 / 0.00 - / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / - / / - / / - / - / / -

LI AZ2000 - Guardrail Mods (MIP) Army UNCLASSIFIED
Page 8 of 8

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

AZ2001 - Multi Sensor ABN Recon (MIP)

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

**Other Related Program Elements:** 

MDAP/MAIS Code(s):

	Prior			FY 2014	F1 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	699.560	61.162	4.294	12.467	-	12.467	188.337	109.424	132.761	82.459	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	699.560	61.162	4.294	12.467	-	12.467	188.337	109.424	132.761	82.459	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	699.560	61.162	4.294	12.467	-	12.467	188.337	109.424	132.761	82.459	Continuing	Continuing
	(The following	Resource Sum	mary rows are fo	or informational p	ourposes only. Ti	he corresponding	budget request	s are documente	ed elsewhere.)		•	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

#### **Description:**

Multi Sensor Airborne Reconnaissance (AZ2001) is a summary budget line including the following programs:

- (1) Airborne Reconnaissance Low (ARL) Mods (MIP). ARL Multifunction (ARL-M) is a multi-intelligence (MultiINT) airborne sensor providing the Combatant Commander with real-time Communications Intelligence (COMINT), Imagery Intelligence (IMINT) and radar products. These systems are currently supporting forces in Central Command (CENTCOM), Southern Command (SOUTHCOM), and Republic of Korea (ROK). The ARL Enhanced (ARL-E) procures the hardware, software, and infrastructure to rapidly install sensors which support 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.
- (2) ARMS/MARSS Mods (MIP). Aerial Reconnaissance Multi Sensor (ARMS) and Medium Altitude Reconnaissance and Surveillance System (MARSS) are quick reaction capability (QRC) systems. MARSS continues to support real-time surveillance and target acquisition missions in Overseas Contingency Operations in Afghanistan. These systems can be configured with imagery, COMINT or other sensors, depending on the emerging requirements. MARSS is a Government Owned/Contractor Operated (GOCO) system.
- (3) Constant Hawk (MIP). Constant Hawk is a persistent surveillance wide field of view Airborne Intelligence, Surveillance and Reconnaissance (AISR) system conducting Counter Improvised Explosive Device (IED) surveillance force protection missions in Overseas Contingency Operations in Afghanistan.
- (4) Airborne Intelligence, Surveillance and Reconnaissance (ISR) Mods (MIP). AISR Mods support Overseas Contingency Operations by providing real-time data links and a wide range of product exploitation/ dissemination capability. This allows receivers of real-time video with METAdata and enables secondary exploitation tools to produce products for dissemination to maneuver elements. Video is also routed to multiple users in theater. The configuration also supports capture and dissemination of other sensors/capabilities (radars, et al).

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<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Jus	stificati	on She	et: PB 201	4 Army									Date	: April	2013			
Appropriation / Budget Activi 2031A: Aircraft Procurement, A Modification Of Aircraft	ity / Bu	dget Su	ıb Activity	:	aft / BS	A 10:	I	_	Item No - Multi S			on (MIF	P)	<u> </u>				
ID Code (A=Service Ready, B=Not Service Read	ly) :			Program	Element	s for Cod	le B Items	s:			Oth	er Relate	d Progran	n Eleme	nts:			
MDAP/MAIS Code(s):																		
Secondary Distribution	FY 2	2012	FY 201	3	FY 201 Base		FY 201 OCO		FY 20 <sup>-</sup> Tota		FY 20	15	FY 20	16	FY 2	017	FY	2018
Army Quantity		-		-		-		-		-		-		-		-		-
Total Obligation Authority		-		4.294		-		-		-		-		-		-		-
Item Schedule		Prior	Years		FY 2012			FY 2013	3	FY	/ 2014 Ba	se	FY	2014 O	co	F	/ 2014 To	otal
	ID <sub>Unit</sub>	Cost Q	tv Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cos
Item Nomenclature* Exhibits	CD (\$		ch) (\$ M )	(\$ K)	(Each)	(\$ M )	(\$ K)	(Each)	(\$ M )	(\$ K)	(Each)	(\$ M )	(\$ K)	(Each)	(\$ M )	(\$ K)	(Each)	(\$ M)
000 - ARL Mod-In-Service P3A		-	- 699.559	-	-	61.162	-	-	4.294	-	-	12.467	-	-	-	-	-	12.467
Total Gross/Weapon System Cost			699.560			61.162			4.294			12.467			-			12.467
Item Schedule		FY 2	015		FY 2016	;		FY 2017	,		FY 2018		To	Comple	te		Total	
	ID Unit	Cost Q	ty Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cos
Item Nomenclature* Exhibits	CD (\$			(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M)	(\$ K)	(Each)	(\$ M )	(\$ K)	(Each)	(\$ M )	(\$ K)	(Each)	(\$ M)
000 - ARL Mod-In-Service P3A		-	- 188.337	-	-	109.424	-	-	132.761	-	-	82.459		Continuing			Continuing	1
Total Gross/Weapon System Cost			188.337			109.424			132.761			82.459		Continuing	ļ		Continuing	9
*Item Nomenclature represents Item Number	r, DODIC, a	and Item N	ame for the P40	0A and P5;	Name for	the P18 and	d P23; Mod	ification N	umber and	Modificatio	n Title for t	he P3A; Ite	m Number	and Item	Name for th	e P10.		
Note: Totals in this Exhibit P-40 set may not	be exact o	r add due t	o rounding.															
Justification:  FY14 Base procurement dollars in th Phoenix Eye radar subsystems for A for one ARL-Enhanced (ARL-E) syste current ARL system making it rapidly  All COMPO 1 Active	RL Multifuem. The	unction (A ARL-E pa	RL-M) and all	so one wo	orkstation in FY14 to	suite, wo	rkstation s the ARL r	oftware,	mission ra	idios, dat	a links, a	COMINT	subsysten	n and as	sociated n	on-recurr	ing engin	eering

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army

Exhibit P-3A, Individual Modification: PB 2014 Army

P-1 Line Item Nomenclature:

**Modification Nomenclature** 

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

AZ2001 - Multi Sensor ABN Recon (MIP)

(Modification Number - Modification

Title):

Date: April 2013

000 - ARL Mod-In-Service

Aircraft / BSA 10: Modification Of Aircraft

Models of Systems Affected: ARL Type Modification: Operational Related RDT&E PEs:

modele er eyetemer meeteur.			1.760									
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	699.559	61.162	4.294	12.467	-	12.467	188.337	109.424	132.761	82.459	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	699.559	61.162	4.294	12.467	-	12.467	188.337	109.424	132.761	82.459	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	699.559	61.162	4.294	12.467	-	12.467	188.337	109.424	132.761	82.459	Continuing	Continuing
	(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	d elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## **Description:**

Gross/Weapon System Unit Cost

Mod-In-Service

(Units in Thousands)

NOTE: Of FY12 dollars only \$11.7M is for ARL Mod-In-Service

	Development	Status/Major	Development Milestones
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Date	Title	Description
May 2011	Final ARL C to M Conversion Delivered	Completed

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P-1 Line #17

127

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AZ2001 - Multi Sensor ABN Recon (MIP)

Date: April 2013

Modification Nomenclature

(Modification Number - Modification

Title):

000 - ARL Mod-In-Service

Models of Systems Affected: ARL	Type Modification: Operational	Related RDT&E PEs:
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widdels of Systems Affected. And		iypei	vioumcatic	ni. Operau	Ullai		110	iateu IND I	<b>XL I L</b> 3.			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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												
ARL Enhanced (ARL-E)												
A Kits												
Recurring												-
Improved Radar Sub-Systems	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 10.000	- / 10.000	- / 10.000	- / 10.000	- / -	- /40.00
MEP/PED Integration	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /9.400	- /4.973	- /6.400	- /6.400	- / -	- / 27.17
Subtotal Recurring	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /19.400	- /14.973	- /16.400	- /16.400	- / -	- /67.17
Non-Recurring											ı	
Non Recurring Engineering	0 / 0.000	- / -	- / -	- /1.200	- / -	- /1.200	- / -	- / -	- / -	- / -	- / -	- /1.20
Subtotal Non-Recurring	0/0.000	- / -	- / -	- /1.200	- / -	- /1.200	- / -	- / -	- / -	- / -	- / -	- /1.20
B Kits			1	1							ı	
Recurring												
DHC-8 300	0 / 0.000	- / -	- / -	- / -	- / -	- / -	4 / 40.000	2 / 20.000	2 / 20.000	1 / 11.000	- / -	9 / 91.00
Aircraft Standardization	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 13.200	- / 11.400	- / 11.700	- /7.200	- / -	- / 43.50
Mini-T & BLOS Data Links	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.151	- / 0.451	- /3.002	- /2.100	- / -	- / 6.70
LIDAR	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.000	- / 11.000	- / 11.000	- / -	- / 33.00
Wide Area Surveillance (WAS)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 6.500	- / 6.500	- / 6.500	- / -	- / -	- / 19.50
Digital Pan Camera/Mapping	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.500	- / 1.500	- / 1.500	- / -	- / -	- /4.50
FOPEN	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.500	- / 5.500	- /5.500	- / -	- / 16.50
Workstations	0 / 0.000	- / -	- / -	- / 0.500	- / -	- / 0.500	- /1.200	- /2.400	- / 2.400	- /1.200	- / -	- /7.70
Workstation Software	0 / 0.000	- / -	- / -	- / 0.500	- / -	- / 0.500	- /3.700	- /2.400	- / 6.200	- / -	- / -	- / 12.80
Mission Radio (Sets)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /3.200	- /3.200	- / 3.200	- /4.800	- / -	- / 14.40
Upgraded HDi FMV Sensors	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /8.500	- /4.000	- / 5.000	- /5.000	- / -	- / 22.50
COMINT Sub-Systems	0 / 0.000	- / -	- / -	- / 2.500	- / -	- /2.500	- / 19.200	- / 10.600	- / 10.600	- / 5.300	- / -	- / 48.20
SSEB/Contract Documentation	0 / 0.000	- / -	- / -	- / 1.167	- / -	- / 1.167	- / -	- / -	- / -	- / -	- / -	- /1.16
Program Mgt	0 / 0.000	- / -	- / -	- / 0.600	- / -	- / 0.600	- /5.000	- /4.000	- / 4.107	- /3.000	- / -	- / 16.70
Spares	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 5.104	- /3.000	- / -	- / 3.959	- / -	- / 12.06
Training and Documentation	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /2.282	- / -	- / 2.952	- / -	- / -	- / 5.23
Side Car / N Station Mounting	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 24.000	- / -	- / 16.000	- / -	- / -	- /40.00
Hyper Spectral Imagery (HSI)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 26.400	- / -	- / -	- / -	- / -	- / 26.40
Subtotal Recurring	0 / 0.000	- / -	- / -	- /5.267	- / -	- /5.267	4 / 160.937	2 / 85.951	2 / 109.661	1 / 60.059	- / -	9 / 421.87
Total, ARL Enhanced (ARL-E)	0 / 0.000	- / -	- / -	- /6.467	- / -	- /6.467	4 / 180.337	2/100.924	2 / 126.061	1 / 76.459	- / -	9 / 490.24

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army UNCLASSIFIED
Page 4 of 15

Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AZ2001 - Multi Sensor ABN Recon (MIP)

Date: April 2013

Modification Nomenclature

(Modification Number - Modification

Title):

000 - ARL Mod-In-Service

Models of Systems Affected: ARL Type	e Modification: Operational	Related RDT&E PEs:
--------------------------------------	-----------------------------	--------------------

Models of Systems Affected: ARL		Type	viodificatio	ni. Operau	onai		Ke	iated RDT	XE PES.			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M									
ARL Multifunction (ARL-M)			•				•			•	•	
A Kits												
Recurring												
RADAR (Phoenix Eye) Upgrades	0 / 0.000	- / -	- / -	- / 1.400	- / -	- / 1.400	- /1.400	- / 1.300	- / 1.100	- / 0.900	- / -	- /6.100
Communications Upgrades	0 / 0.000	- / -	- / -	- / 1.900	- / -	- / 1.900	- /1.900	- / 1.700	- / 1.500	- /1.200	- / -	- /8.200
Program Management	0 / 0.000	- / -	- / -	- / 0.400	- / -	- / 0.400	- / 0.400	- / 0.400	- / 0.300	- / 0.400	- / -	- / 1.900
Subtotal Recurring	0 / 0.000	- / -	- / -	- /3.700	- / -	- /3.700	- /3.700	- /3.400	- /2.900	- /2.500	- / -	- /16.20
B Kits												
Recurring												
Work Station Architecture Upgrades	0 / 0.000	- / -	- / -	- / 0.900	- / -	- / 0.900	- / 0.900	- / 0.800	- / 0.700	- / 0.600	- / -	- /3.900
COMINT Diamond Back Upgrades	0 / 0.000	- / -	- / -	- / 1.400	- / -	- /1.400	- /1.400	- /1.300	- /1.100	- / 0.900	- / -	- / 6.100
Subtotal Recurring	0 / 0.000	- / -	- / -	- /2.300	- / -	- /2.300	- /2.300	- /2.100	- /1.800	- /1.500	- / -	- /10.000
Total, ARL Multifunction (ARL-M)	0 / 0.000	- / -	- / -	- /6.000	- / -	- /6.000	- /6.000	- /5.500	- /4.700	- /4.000	- / -	- /26.200
System Interoperability		,										
B Kits												
Recurring												
Datalink A-Kit	0 / 0.240	- / 0.480	- / 0.255	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.975
Datalink Hardware	0 / 0.500	- /1.000	- / 0.515	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.015
Software	0 / 2.700	- / 0.300	- / 1.449	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /4.449
Program Mgt	0 / 1.700	- / 0.270	- / 0.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.370
Spares	0 / 2.500	- / 0.100	- / 0.225	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.825
Integration of Existing Systems	0 / 3.160	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.160
Prototyping	0 / 9.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 9.600
OIF Air Force Interop	0 / 3.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.100
Subtotal Recurring	0 / 23.500	- /2.150	- /2.844	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.494
Non-Recurring												
Engineering Design	0 / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.000
Subtotal Non-Recurring	0 / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.000
Total, System Interoperability	0 / 25.500	- /2.150	- /2.844	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /30.494
Workstation Architecture												
B Kits												
Recurring		-										

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army UNCLASSIFIED
Page 5 of 15

Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AZ2001 - Multi Sensor ABN Recon (MIP)

Date: April 2013

**Modification Nomenclature** 

(Modification Number - Modification

Title):

000 - ARL Mod-In-Service

Type Modification: Operational Models of Systems Affected: ARL Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M									
SW PC Client Server	0 / 2.200	- /1.200	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /4.00
Initial Spares	0 / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /3.00
Program Management	0 / 0.700	- / 0.200	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.00
Workstation	6 / 2.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.90
Non-Recurring Engineering	0 / 3.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /3.00
Subtotal Recurring	6 / 11.800	- /1.400	- /0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 13.90
Total, Workstation Architecture	6 / 11.800	- /1.400	- /0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 13.90
COMINT Upgrades												,
B Kits												
Recurring												
Diamond Back B Kits	4 / 11.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 11.10
Calibration & Test	0 / 4.600	- / 0.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /4.70
Program Mgt	0 / 2.400	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.70
Signal Processing SW	0 / 4.900	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /5.20
Frequency Extension Antenna	0 / 2.681	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.68
Diamond Back NRE	0 / 5.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /5.40
Spares	0 / 3.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /3.20
Subtotal Recurring	4 / 34.281	- /0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 34.98
Total, COMINT Upgrades	4 / 34.281	- /0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 34.98
Radar												
B Kits												
Recurring												
Phoenix Eye (3 plus spare)	4 / 19.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 19.10
SW Improvements	0 / 5.800	- / 1.462	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /7.26
Lynx GMTI	0 / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.80
Fielding/User Assessment	0 / 0.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.50
Program Management	0 / 2.900	- / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /3.10
Subtotal Recurring	4 / 29.100	- /1.662	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4/30.76
Non-Recurring												
Non Recurring Engineering	0 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.50
Subtotal Non-Recurring	0 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /1.50
Total, Radar	4/30.600	- /1.662	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4/32.26

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army

**UNCLASSIFIED** Page 6 of 15

Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AZ2001 - Multi Sensor ABN Recon (MIP)

Date: April 2013

Modification Nomenclature

(Modification Number - Modification

Title):

000 - ARL Mod-In-Service

Models of Systems Affected: ARL Type Modification: Operational Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M							
ARL-C to ARL-M Conversion												,
B Kits												
Recurring												
Airframe Modification and Integration	0 / 26.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 26.800
Air Worthiness Release	0 / 0.700	- / 0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /1.000
Test & Fielding	0 / 5.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.300
Program Management	0 / 2.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.300
Subtotal Recurring	0 / 35.100	- /0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /35.400
Total, ARL-C to ARL-M Conversion	0 / 35.100	- /0.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /35.400
Completed Mods												
A Kits												
Recurring												
Completed Mods	0 / 550.780	- / 52.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 603.580
Subtotal Recurring	0 / 550.780	- / 52.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /603.580
Total, Completed Mods	0 / 550.780	- / 52.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 603.580
Total Procurement, All Modifications	14 / 688.061	- /59.012	- /3.544	- /12.467	- / -	- /12.467	4 / 186.337	2 / 106.424	2 / 130.761	1 / 80.459	- / -	23 / 1,267.065
Total Procurement and Support	688.061	59.012	3.544	12.467	-	12.467	186.337	106.424	130.761	80.459	-	1,267.065
ARL Enhanced (ARL-E) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	2 / 2.000	3 / 3.000	2 / 2.000	2 / 2.000	- / -	9 / 9.000
ARL Multifunction (ARL-M) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
System Interoperability Installation Cost	0 / 0.000	2 / 1.250	1 / 0.750	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 2.000
Workstation Architecture Installation Cost	6 / 2.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 2.900
COMINT Upgrades Installation Cost	3 / 5.100	1 / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 6.000
Radar Installation Cost	3 / 3.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	3 / 3.500
ARL-C to ARL-M Conversion Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Completed Mods Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total Installation Cost	12 / 11.500	3 / 2.150	1/0.750	- / -	- / -	- / -	2/2.000	3/3.000	2/2.000	2/2.000	- / -	25 / 23.400
Total Cost (Procurement + Support + Installation)	699.561	61.162	4.294	12.467		12.467	188.337	109.424	132.761	82.459		1,290.465

LI AZ2001 - Multi Sensor ABN Recon (MIP) Army UNCLASSIFIED
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															UN	CLAS	SIF	IED															
Exhibit	P-3A	, In	divid	ua	l Modi	fica	tior	ı: PB	20	14 Ar	my														Dat	e: A	pril 20	)13					
Approp 2031A: Aircraft	Aircra	aft F	rocur	em	nent, A	rmy	/ / B	A 02:								<b>Nomen</b> Sensor			con (M	/IIP)					(Mo	odific e):	ation	Num	nenclat ber - M	lodific	ation		
Models	of Sy	yste	ems <i>F</i>	۱ff	ected:	AR	L					Type N	/lodi	ficatio	on: O	peratio	nal					F	Related	RD	T&E I	PEs:							
Manufac	turer In	nforn	nation	: AI	RL Enh	ance	d (A	RL-E)																									
Manufact	urer Na	me:	TBS/T	BD												N	/lanuf	acture	r Locati	on: TE	SS/TBD	)											
Administr	ative Le	eadti	ime (in	Мо	nths): 6											F	Produ	ction L	eadtime	e (in M	fonths):	: 12											
	Dates				FY	2012	2			FY	2013			FY	2014			FY	2015			F	Y 2016			F	Y 2017	,		FY	2018		
Contract	Dates													Mar	2014																		
Delivery [	Dates																	Mar	2015														
Installati			hance	A) t	ARL-E)		Qty	r <b>Years</b> (Each) /		<b>FY 20</b> Qty (Ea	ch) /	FY 20 Qty (Eac	13 :h) /	FY 2 Ba	2014 se	FY 20 OCO	014 O	<b>T</b> Qty	2014 fotal (Each) /	Qty	<b>2015</b> (Each) /		FY 2016  Qty (Each)	<b>i</b>	FY 20 Qty (Ea	ch) /	Qty (	<b>2018</b> Each) /	Com	plete Each) /	Qty (I		
All Prior Yea		<b>ι</b>				7	Total C	0 / 0.00	_	otal Cost	(\$ M ) (0.000	Total Cost	(\$ M ) 0.000	Total Co.	st (\$ M ) 0 / 0.000	Total Cost	(\$ M )	Total C	0 / 0.000	_	0 / 0.00	-	otal Cost (\$ 1 0 / 0.0	-	Total Cost	(\$ M ) / 0.000	Total C	ost (\$ M ) 0 / 0.000		ost (\$ M ) 0 / 0.000	Total Co	0 / 0.	_
FY 2012	115			—				0 / 0.00	-		/ -	-			/ -		/ -		- / -	'	- / -		- /			/ -		- / -	_	/ -	_	- /	
FY 2013								0 / 0.00	00	-	/ -	-	/ -	-	/ -	-	/ -		- / -		- / -	$\top$	- /	-	-	/ -		- / -	-	/ -		- /	-
FY 2014								0 / 0.00	00	-	/ -	-	/ -	-	/ -	-	/ -		- / -		- / -		- /	-	-	/ -		- / -	_	/ -		- /	-
FY 2015								0 / 0.00	00	-	/ -	-	/ -	-	/ -	-	/ -		- / -		2 / 2.00	00	- /	-	-	/ -		- / -		/ -		2/2	.000
FY 2016								0 / 0.00	_		/ -	-			/ -	-	/ -		- / -		- / -	_	3 / 3.0	-		/ -		- / -		/ -		3/3	
FY 2017								0 / 0.00	_		/ -	-			/ -	+	/ -		- / -		- / -	+	- /	-		/ 2.000		- / -		/ -	+	2/2	
FY 2018 To Complete								0 / 0.00	_		/ - / -		/ - / -		/ -	-	/ -		- / -		- / -	_	- /	_		/ -		2 / 2.000		/ -		2/2	
Total				—				0 / 0.00	_		/ -	-			/ -	+	/ -		- / -		2/2.00	-	3 / 3.0	_		/ 2.000		2 / 2.000		/ -	+	9/9.	
Installati	on Sch	edu	le	_				3, 0.00			-	<u> </u>				1	-			1			0,0.0					_,	Т			3,0	.500
			FY 20	12				FY 20	13			FY 2	2014			FY 20	15			FY 2	2016			F	Y 2017			F	Y 2018		$\top$	$\top$	—
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LI AZ2001 - Multi Sensor ABN Recon (MIP) Army

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Exh	ibit P	-3A, I	Indivi	dual	Мо	dific	atio	n: P	B 20	14 Ar	my														Date: A	pril 20	13				
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Man	ufacture	r Nam	e: LMI	S/SNC	;												Manu	facture	r Locati	on: H	lagersto	wn, M	D								
Adm	inistrativ	/e Lea	dtime (	in Mo	nths)	:											Produ	ction L	eadtim	e (in N	Months)										
	Da	tes			F	Y 20	12			FY	2013			FY	2014			FY	2015			FY 2	2016		F	Y 2017			FY	2018	
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Exh	ibit P-	∙3A, I	ndiv	dual	Modi	ficati	on: P	B 20	014 Ar	my														Date	: Ap	ril 201	3				
203	•	craft	Proc	urem	ent, A	rmy /	BA 0		ub Act lodifica	•			_		<b>Nome</b> Sens			con (N	⁄IIP)					(Mod Title)	ifica :	<b>ition N</b> ation No L Mod	umb	er - N	/lodific	ation	
Mod	lels of	Sys	tems	Affe	cted:	ARL					Туре	Modi	ficati	on: O	perati	onal					Re	elated	RDT	&E PE	Es:						
Manı	ıfacture	er Info	rmatio	n: Co	mplete	d Mod	ls														·										
Manı	facture	r Nam	e: Vari	ous												Manu	facture	er Locati	on: V	arious											
Admi	nistrativ	e Lea	dtime (	in Mor	ths):											Produ	iction I	_eadtim	e (in N	Months,	):										
	Dat	tes			FY	2012			FY	2013			FY	2014			FY	2015			FY	2016			FY	2017			FY	2018	
Cont	act Dat	es																													
Deliv	ery Date	es																													
Insta	llation:	Comp	leted	Mods							Method	d of Im	pleme	ntation	n: Conti	ractor					Ins	tallation	n Nar	ne:							
						Pr	ior Ye	ars	FY 20	12	FY 2	013		2014 Ise		2014 CO		2014 otal	F	Y 2015		Y 2016		FY 2017	7	FY 20	18		Γο nplete	To	otal
Insta	llation	Cost					Qty (Each		Qty (Eac		Qty (Ea			Each) / ost (\$ M )		Each) / ost (\$ M )		(Each) / Cost (\$ M )		y (Each) / I Cost (\$ I		Qty (Each) / al Cost (\$ M		Qty (Each) tal Cost (\$		Qty (Eac			Each) / ost (\$ M )		(Each) /
All Pric	r Years						0/0	0.000	0 /	0.000	0	/ 0.000		0 / 0.000		- / -		0 / 0.000		0 / 0.0	00	0 / 0.0	00	0 / 0.	.000	0 /	0.000		0 / 0.000		0 / 0.00
FY 201	2						0/0	0.000	-	/ -	-	/ -		/ -	-	- / -		- / -		- /		- / -		- /	-	-	/ -		- / -		- / -
FY 201								0.000		/ -		/ -		/ -		- / -		- / -		- /	_	- / -	_	- /	_	-			- / -		- / -
FY 201								0.000		/ -		/ -		/ -		/ -		- / -		- /	_	- / -		- /	_	-			- / -		- / -
FY 201								0.000		/ -		/ -		/ -	-	. / -		- / -		- /		- / -	_	- /	-	-			- / -		- / -
FY 201								0.000		/ - / -		/ - / -		/ -		. / -		- / -		- / -	_	- / -	_	- /	_	-			- / -		- / -
FY 201						_		0.000		/ -		/ -		/ -	-	. / -		- / -		- /		- / -		- /	_				- / -		- / -
To Cor								0.000		/ -		/ -		/ -	-	. / -		- / -		- /	_	- / -		- /	_				- / -		- / -
Total								0.000	-	/ -		/ -		/ -	_	. / -		- / -		- /	_	- / -		- /	-	-	/ -		- / -		- / -
Insta	llation	Sched	lule										<u> </u>																		
			FY	2012			FY	2013			FY	2014			FY	2015			FY	2016			FY	2017			FY	2018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
In	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	_	-	-	_

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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

Modification Of Aircraft

Dete: April 2013

AA6605 - AH-64 MODS

Modification Of Aircraft

Dete: April 2013

Other Related Program Elements:

MDAP/MAIS Code(s):

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	6,022.908	331.230	178.805	53.559	-	53.559	325.213	246.335	247.267	264.314	580.576	8,250.207
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	6,022.908	331.230	178.805	53.559	-	53.559	325.213	246.335	247.267	264.314	580.576	8,250.207
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	6,022.908	331.230	178.805	53.559	-	53.559	325.213	246.335	247.267	264.314	580.576	8,250.207
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Ti	he corresponding	budget request	s are documente	d elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

### **Description:**

(Units in Thousands)

Flyaway Unit Cost (Units in Thousands)
Gross/Weapon System Unit Cost

The AH-64 MODS (AA6606) program provides for modernization of the fielded AH-64D Longbow Apache (LBA) fleet. AH-64D is a tandem cockpit, twin engine, single main rotor attack helicopter. The LBA 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 LBA 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 Pilot Night Vision Sensor (PNVS) is a FLIR which allows Nap-of-Earth flight operations at night by the pilot independent of the co-pilot/gunner's FLIR. The Longbow 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, Software upgrades, Condition Based Maintenance (CBM), Trainer upgrades, the Lightweight Missile Launcher (LWML) and Computer/Processing and Data Display and Control upgrades. Approximately half the Apache fleet will be non AB3 configured past 2020. These modernization efforts are required to ensure the Longbow Apache remains a ready and relevant Soldier asset.

Second	dary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	-	-	-	-	-	-	-	-	-

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<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: AA6605 - AH-64 MODS Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

**Program Elements for Code B Items:** 

**Other Related Program Elements:** 

MDAP/MAIS Code(s):

Secondary Dis	tribution		FY 2012		FY 2013	3	FY 201 Base	-	FY 201 OCO	-	FY 20 <sup>-</sup> Tota		FY 20	)15	FY 20	016	FY 2	017	FY 2	2018
Total Ob	ligation Authority		331	1.230	17	8.805		53.559		-		53.559		325.213		246.335		247.267		264.314
Item Sche	dule		Р	rior Yea	rs		FY 2012			FY 2013		FY	′ 2014 Ba	ase	FY	2014 O	СО	FY	2014 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
0000 - AH-64 Modifications	P3A		-	-	6,022.908	-	-	331.230	-	-	178.805	-	-	53.559	-	-	-	-	-	53.559
Total Gross/Weapon System Cost					6,022.908			331.230			178.805			53.559			-			53.559
Item Sche	dule			FY 2015	;		FY 2016	i		FY 2017			FY 2018		To	Comple	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
0000 - AH-64 Modifications	P3A		-	-	325.213	-	-	246.335	-	-	247.267	-	-	264.314	-	-	580.576	-	-	8,250.207
Total Gross/Weapon System Cost					325.213			246.335			247.267			264.314			580.576			8,250.207

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P40A.

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

#### Justification:

Army

FY14 Base funding in the amount of \$53.559 Million supports modification efforts for the Airframe, Armament, Manned/Unmanned Teaming Mission Command, Sensors, Survivability, Support Elements and training Systems.

#### All COMPO 1 Active

The Apache Project Manager developed new P Form categories to link the new capabilities to an Apache Work Breakdown Structure. The categories (Airframe, Arnament, Manned/Unmanned Teaming, Mission Command, etc) provide a more logical view and align the funding to a specific part of the aircraft.

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Exhibit P-3A, Individual Modif	ication: PB :	2014 Army							Date: A	pril 2013		
Appropriation / Budget Activit 2031A: Aircraft Procurement, Ar Aircraft / BSA 10: Modification C	my / BA 02:			<b>Line Item</b> 6605 - AH-6	<b>Nomenclat</b> 64 MODS	ure:		Modification Nomenclature (Modification Number - Modification Number - Modification): 0000 - AH-64 Modifications  Related RDT&E PEs: ues				
Models of Systems Affected:	_ongbow Apa	ache	J		perational & solve Obso	,		Related R	DT&E PEs:			
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total

			-									
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	6,022.908	331.230	178.805	53.559	-	53.559	325.213	246.335	247.267	264.314	580.576	8,250.207
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	6,022.908	331.230	178.805	53.559	-	53.559	325.213	246.335	247.267	264.314	580.576	8,250.207
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	6,022.908	331.230	178.805	53.559	-	53.559	325.213	246.335	247.267	264.314	580.576	8,250.207
	(The following	Resource Sum	marv rows are fo	or informational p	urposes only. Th	he corresponding	budaet reauest	s are documente	ed elsewhere.)		Jan 1	

	(The following	g Resource Sum	mary rows are fo	or informational p	ourposes only. Ti	he corresponding	g budget request	s are documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### **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. The Propulsion/Drive/Rotor Systems includes the Composite Main Rotor Blade (CMRB), engine, transmission, gear boxes and associated linkages. Propulsion/Drive/Rotor Systems together with Engine Electronic Digital 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.

The Armament Modification provides funding for the Lightweight Missile Launcher (LWML) upgrade to the M299 configuration launcher on the AH-64D and Pylon Interface Unit (PIU) obsolescence which will be used to address obsolescence issues on multiple components of the PIU. The LWML development, which is led by PM JAMS, is delayed due to technical issues. LWML will likely not be available until FY18. The Current strategy includes procurement of legacy launchers until the LWML becomes available. The HQDA directed LWML upgrade increases reliability and interoperability, reduces procurement costs, alleviates obsolescence issues with the current M299 launcher, and reduces the weight of the aircraft by 145 lbs (31 lbs per launcher). The M299 upgrade allows Soldiers the ability to fire multiple missile variants in any sequence and provides maximum operational flexibility on the battlefield.

Manned/Unmanned Teaming modifications will provide enhanced battlefield situational awareness with the ability to employ over the horizon reconnaissance without exposing the aircraft or the crew to enemy anti-aircraft threats. Modifications will focus on Air-to-Air-to Ground (AAG) capability upgrade which will allow the Apache to transmit and receive UAS or MTADS video between aircraft and/or to a ground user. Additional hardware and software upgrades will meet future interoperability requirements that will generate an integration effort of the Bandwith Enhanced Common Data Link (BECDL) to ensure the Apache will remain compatible with all UAS platforms. UAS weapons fire control capability is a modification effort which will enhance the Apache's combat power and bring additional support to the fight.

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-3A, Individual Modification: PB 2014 Army			Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity 2031A: Aircraft Procurement, Army / BA 02: Modification Aircraft / BSA 10: Modification Of Aircraft	P-1 Line Item Nomenclature: AA6605 - AH-64 MODS		Modification Nomenclature (Modification Number - Modification Title): 0000 - AH-64 Modifications
Models of Systems Affected: Longbow Apache	 Modification: Operational & Reliability vements and Resolve Obsolescence Issues	Related RDT	&E PEs:

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. The MDSA includes three (3) distinct funding phases. 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 DSA components, adding a laser pointer and high definition color-camera capability. Phase III funding enables software integration, tooling, and test equipment procurement and system production. MDSA Phase III completes the modernization by adding MILES/TESS compatible laser, allowing aircrews to use the MTADS/MDSA system to its full potential during home station training and Combat Training Center rotations. The MRFI Processor, Receiver, and Antenna solve obsolescence issues on the Single Board Computer and the Parameter Measurement Unit chip. The Electronic Image Intensifier (EI2) Camera will provide performance for fusing visible/near infrared imagery with forward looking infrared (FLIR) imagery, enhanced capability for image fusion and stand alone capability for pilotage which allows the pilot to switch between FLIR, fused and EI2. Additional modifications include Fire Control Radar (FCR) upgrades which will provide range extension, air-to-

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.

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.

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Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Modification Nomenclature

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 02: Modification of
AA6605 - AH-64 MODS

Aircraft / BSA 10: Modification Of Aircraft

0000 - AH-64 Modifications

(Modification Number - Modification

Models of Systems Affected: Longbow Apache

Type Modification: Operational & Reliability
Improvements and Resolve Obsolescence Issues

Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (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												
Apache Sensors Life Extension & Upgrade												
A Kits												_
Recurring												
Kit Quantity	669 / 114.005	- / 9.692	- / -	8 / -	- / -	8 / -	13 / -	16 / -	15 / -	15 / -	- / -	736 / 123.69
Equipment (GFE)	0 / 44.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 44.90
Visible Near Infrared (V/NIR)	0 / 28.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 28.60
Other	0 / 6.300	- / 0.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /7.20
Subtotal Recurring	669 / 193.805	- /10.592	- / -	8/ -	- / -	8/ -	13/ -	16/ -	15/ -	15/ -	- / -	736 / 204.39
Total, Apache Sensors Life Extension & Upgrade	669 / 193.805	- /10.592	- / -	8/ -	- / -	8/ -	13/ -	16/ -	15/ -	15/ -	- / -	736 / 204.39
AH-64A MISC Mods \$5M or less (no P3a set)												
A Kits												
Recurring												
Interim Contractor Support	0 / 742.559	- / 9.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 751.59
Subtotal Recurring	0 / 742.559	- /9.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /751.59
Total, AH-64A MISC Mods \$5M or less (no P3a set)	0 / 742.559	- /9.031	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /751.59
Apache Transformation (no P3a set)			'									
A Kits												
Recurring												
Sets, Kits & Outfits (SKO)	0 / 20.000	- /3.990	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.99
Equipment, NGF	0 / 29.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.10
ASL/PLL	0 / 2.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.00
Subtotal Recurring	0 / 51.100	- /3.990	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 55.09
Total, Apache Transformation (no P3a set)	0/51.100	- /3.990	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 55.09
Modernized TADS/PNVS (M-TADS)				1							1	
A Kits												
Recurring												
Equipment	542 / 810.800	- / 50.830	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	542 / 861.63
Equipment (OCO)	23 / 49.070	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 49.07
TEDAC/IHDSS	0 / 67.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 67.20

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Exhibit P-3A, Individual Modification: PB 2014 Army

P-1 Line Item Nomenclature:

Date: April 2013

Modification Nomenclature

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

AA6605 - AH-64 MODS

Aircraft / BSA 10: Modification Of Aircraft

*Title*): 0000 - AH-64 Modifications

(Modification Number - Modification

Models of Systems Affected: Longbow Apache Type Modification: Operational & Reliability

Improvements and Resolve Obsolescence Issues

∣Rel	lated	RD	T&E	PEs:
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	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M							
Other Support	0 / 42.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 42.200
Subtotal Recurring	565 / 969.270	- /50.830	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	565 / 1,020.100
Total, Modernized TADS/PNVS (M-TADS)	565 / 969.270	- /50.830	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	565 / 1,020.100
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
Subtotal Recurring	192 / 262.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	192 / 262.500
Total, Video from UAS Interoperability Teaming (VUIT-2)	192 / 262.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	192 / 262.500
Apache Product Improvements												
A Kits												
Recurring												
CBM Hardware/VMEP	368 / 13.100	60 / 4.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	428 / 17.600
Other Recap	0 / 39.800	- /8.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /48.100
NG Recap Support	0 / 59.110	- / 20.190	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 79.300
CBM Services	0 / 45.400	- /4.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /49.600
Composite Main Rotor Blade ship sets	0 / 0.000	10 / 17.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 17.100
Other	0 / 563.268	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 563.268
Subtotal Recurring	368 / 720.678	70 / 54.290	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	438 / 774.968
Total, Apache Product Improvements	368 / 720.678	70 / 54.290	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	438 / 774.968
Lightweight Missile Launcher (LWML)												,
A Kits												
Recurring												
LWML Procurement	362 / 23.464	160 / 10.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	522 / 34.064
Subtotal Recurring	362 / 23.464	160 / 10.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	522 / 34.064
Total, Lightweight Missile Launcher (LWML)	362 / 23.464	160 / 10.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	522 / 34.064
Apache Upgrades and Remanufacture		1	1	1	1		1	1	1	1	1	1
A Kits												

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Exhibit P-3A, Individual Modification: PB 2014 Army

Date: April 2013
Line Item Nomenclature: Modification Nomenclature

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

P-1 Line Item Nomenclature: AA6605 - AH-64 MODS

(Modification Number - Modification

Aircraft / BSA 10: Modification Of Aircraft

Title):

0000 - AH-64 Modifications

Models of Systems Affected: Longbow Apache

Type Modification: Operational & Reliability

Related RDT&E PEs:

				FY 2014	FY 2014	FY 2014					То	
	Prior Years	FY 2012	FY 2013	Base	осо	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M				
Blk II Reman Aircraft	117 / 1,293.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	117 / 1,293.300
NG Aircraft Procurement	72 / 852.421	- / 13.430	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 865.85
NG Aircraft Procurement (OCO)	23 / 284.530	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	23 / 284.530
System / Software Upgrade	0 / 0.000	- / 23.323	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.32
Obsolescence	0 / 0.000	- / 18.257	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 18.25
NG MEP	0 / 116.760	- / 5.920	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 122.68
Other Support	0 / 170.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 170.300
Subtotal Recurring	212 / 2,717.311	- /60.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	212 / 2,778.24
Total, Apache Upgrades and Remanufacture	212 / 2,717.311	- /60.930	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	212 / 2,778.24
Modernized Day Side Assembly (M-DSA), Phase1												
A Kits												
Recurring												
Equipment	11 / 18.487	158 / 102.347	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	169 / 120.83
Subtotal Recurring	11 / 18.487	158 / 102.347	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	169 / 120.83
Total, Modernized Day Side Assembly (M-DSA), Phase1	11 / 18.487	158 / 102.347	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	169 / 120.83
Fire Control Radar (FCR)												_
A Kits												
Recurring												_
Installation Kits	27 / 105.620	3 / 28.620	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	30 / 134.24
Installation Kits (OCO)	9 / 44.880	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 44.88
Subtotal Recurring	36 / 150.500	3 / 28.620	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 179.12
Total, Fire Control Radar (FCR)	36 / 150.500	3 / 28.620	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	39 / 179.12
Apache Block III												
A Kits												
Recurring												
Long Lead Items	0 / 11.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.10
A to Block III (NRE)	0 / 29.370	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 29.37
Subtotal Recurring	0 / 40.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /40.470
Total, Apache Block III	0 / 40.470	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /40.470
Apache Training Aids, Devices, Simulators & Simul												,
A Kits												-

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P-1 Line #18

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Exhibit P-3A, Individual Modification: PB 2014 Army

Date: April 2013

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

P-1 Line Item Nomenclature: AA6605 - AH-64 MODS

(Modification Number - Modification

Aircraft / BSA 10: Modification Of Aircraft

Title):

0000 - AH-64 Modifications

Modification Nomenclature

Models of Systems Affected: Longbow Apache

Type Modification: Operational & Reliability
Improvements and Resolve Obsolescence Issues

Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (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												
LCT (NG/USAACE/WAATS)	5 / 84.860	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 84.860
System TADSS	50 / 24.404	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	50 / 24.404
Subtotal Recurring	55 / 109.264	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 109.264
Total, Apache Training Aids, Devices, Simulators & Simul	55 / 109.264	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	55 / 109.264
Airframe												
A Kits												
Recurring												
Structural Subsystems	0 / 0.000	- / -	- / 5.875	- / -	- / -	- / -	- / 14.126	- /7.872	- / 9.207	- / 16.200	- / -	- / 53.280
Health Monitoring System	0 / 0.000	- / -	- /3.500	- /3.011	- / -	- /3.011	- /4.130	- /5.070	- /4.655	- /5.000	- / -	- / 25.366
Recap Support / Kits	0 / 0.000	- / -	- /7.964	- / 21.669	- / -	- / 21.669	- / 31.741	- / 31.816	- / 31.892	- / 32.360	- / -	- / 157.442
Other Support	0 / 0.000	- / -	- / -	- / 3.136	- / -	- / 3.136	- / 6.085	- /4.822	- /5.118	- /8.047	- / -	- / 27.208
Subtotal Recurring	0 / 0.000	- / -	- /17.339	- /27.816	- / -	- /27.816	- /56.082	- /49.580	- /50.872	- /61.607	- / -	- / 263.296
B Kits												,
Non-Recurring												
Propulsion-Drive-Rotor Systems	0 / 0.000	- / -	72 / 11.981	- / -	- / -	- / -	- /4.711	- / -	- / -	16 / 2.887	- / -	88 / 19.579
Subtotal Non-Recurring	0 / 0.000	- / -	72 / 11.981	- / -	- / -	- / -	- /4.711	- / -	- / -	16 / 2.887	- / -	88 / 19.579
Total, Airframe	0/0.000	- / -	72 / 29.320	- /27.816	- / -	- /27.816	- /60.793	- /49.580	- /50.872	16 / 64.494	- / -	88 / 282.875
Armament								•	•			,
A Kits												
Recurring												
PIU Obsolescence	0 / 0.000	- / -	- /6.000	- / -	- / -	- / -	- /6.500	- / -	- / -	- /4.022	- / -	- / 16.522
Subtotal Recurring	0/0.000	- / -	- /6.000	- / -	- / -	- / -	- /6.500	- / -	- / -	- /4.022		- /16.522
B Kits						I	I	l	l	I	I	I.
Non-Recurring												
M299/Lightweight Missile Launcher	0 / 0.000	- / -	- / -	- / -	- / -	- / -	276 / 29.826	53 / 5.717	94 / 10.427	52 / 5.360	- / -	475 / 51.330
Subtotal Non-Recurring	0/0.000	- / -	- / -	- / -	- / -	- / -	276 / 29.826	53 / 5.717	94 / 10.427	52 / 5.360		475 / 51.330
Total, Armament	0/0.000	- / -	- /6.000	- / -	- / -	- / -	276 / 36.326	53 / 5.717	94 / 10.427	52 / 9.382		475 / 67.852
Manned / Unmanned Teaming	3 / 3.000	·	7 0.000	, -	, -	, -	270700.020	0070.717	017 10.427	027 0.002	, -	170707.002
B Kits	-											

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Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA6605 - AH-64 MODS

Date: April 2013

Modification Nomenclature

(Modification Number - Modification

Title):

0000 - AH-64 Modifications

Models of Systems Affected: Longbow Apache

Type Modification: Operational & Reliability
Improvements and Resolve Obsolescence Issues

ional & Reliability Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (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												,
UTA Upgrade	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /6.000	- /5.000	- / -	- / -	- / -	- / 11.000
Subtotal Recurring	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /6.000	- /5.000	- / -	- / -	- / -	- /11.000
Total, Manned / Unmanned Teaming	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /6.000	- /5.000	- / -	- / -	- / -	- /11.00
Mission Command												,
A Kits												
Recurring												-
Processors	0 / 0.000	- / -	- / 12.000	- /6.324	- / -	- /6.324	- / 23.836	- / 25.209	- / 25.473	- / 22.000	- / -	- / 114.84
Displays	0 / 0.000	- / -	- /5.000	- /7.186	- / -	- /7.186	- / 6.131	- /7.650	- /7.650	- /8.000	- / -	- /41.61
Subtotal Recurring	0 / 0.000	- / -	- /17.000	- /13.510	- / -	- /13.510	- /29.967	- /32.859	- /33.123	- /30.000	- / -	- /156.45
Total, Mission Command	0/0.000	- / -	- /17.000	- /13.510	- / -	- /13.510	- /29.967	- /32.859	- /33.123	- /30.000	- / -	- /156.45
Sensors												,
A Kits												
Recurring												
Fire Control Radar	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 46.183	- / 44.212	- / 47.466	- / -	- / -	- / 137.86
MTADS/PNVS	0 / 0.000	- / -	- / 11.468	- /7.880	- / -	- /7.880	- / 13.158	- / 15.806	- / 15.357	- / 15.260	- / -	- / 78.92
RFI	0 / 0.000	- / -	- /4.370	- / 3.159	- / -	- / 3.159	- / -	- / -	- / -	- / -	- / -	- /7.52
Other Support	0 / 0.000	- / -	- / -	- / 1.194	- / -	- / 1.194	- / 12.855	- / 10.778	- / 11.352	- / 10.283	- / -	- / 46.46
Subtotal Recurring	0 / 0.000	- / -	- /15.838	- /12.233	- / -	- /12.233	- /72.196	- /70.796	- /74.175	- / 25.543	- / -	- /270.78
B Kits												,
Non-Recurring												
MDSA Phase 1	0 / 0.000	- / -	138 / 81.523	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 81.52
MDSA Phase 2	0 / 0.000	- / -	- / -	- / -	- / -	- / -	15 / 74.861	30 / 74.890	38 / 75.195	48 / 70.000	- / -	131 / 294.94
MDSA Phase 3	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 10.300	- / -	24 / 10.30
El2	0 / 0.000	- / -	- / -	- / -	- / -	- / -	264 / 21.370	- / -	- / -	- / -	- / -	264 / 21.37
Subtotal Non-Recurring	0/0.000	- / -	138 / 81.523	- / -	- / -	- / -	279 / 96.231	30 / 74.890	38 / 75.195	72 / 80.300	- / -	557 / 408.13
Total, Sensors	0/0.000	- / -	138 / 97.361	- /12.233	- / -	- /12.233	279 / 168.427	30 / 145.686	38 / 149.370	72 / 105.843	- / -	557 / 678.92
Support Elements										-		
A Kits												
Recurring												

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Exhibit P-3A, Individual Modification: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

AA6605 - AH-64 MODS

**Modification Nomenclature** (Modification Number - Modification

Title):

0000 - AH-64 Modifications

Aircraft / BSA 10: Modification Of Aircraft

Models of Systems Affected: Longbow Apache

Type Modification: Operational & Reliability

P-1 Line Item Nomenclature:

Improvements and Resolve Obsolescence Issues

Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M						
Post Production Organic Support	0 / 0.000	- / -	- / 8.438	- / -	- / -	- / -	- / -	- /2.764	- / -	- / 48.595	- / -	- / 59.797
Subtotal Recurring	0 / 0.000	- / -	- /8.438	- / -	- / -	- / -	- / -	- /2.764	- / -	- /48.595	- / -	- / 59.797
Total, Support Elements	0 / 0.000	- / -	- /8.438	- / -	- / -	- / -	- / -	- /2.764	- / -	- /48.595	- / -	- / 59.797
Training Systems												
A Kits												
Recurring												
Operator Devices	0 / 0.000	- / -	- / 16.980	- / -	- / -	- / -	- / 14.500	- /2.557	- / 0.800	- /3.000	- / -	- / 37.837
Maintainer Devices	0 / 0.000	- / -	- /3.706	- / -	- / -	- / -	- / 9.200	- /2.172	- /2.675	- /3.000	- / -	- / 20.753
TC	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 580.576	- / 580.576
Subtotal Recurring	0 / 0.000	- / -	- /20.686	- / -	- / -	- / -	- /23.700	- /4.729	- /3.475	- /6.000	- / 580.576	- /639.166
Total, Training Systems	0 / 0.000	- / -	- /20.686	- / -	- / -	- / -	- /23.700	- /4.729	- /3.475	- /6.000	- / 580.576	- /639.166
Total Procurement, All Modifications	2,470 / 5,999.408	391 / 331.230	210 / 178.805	8 / 53.559	- /-	8 / 53.559	568 / 325.213	99 / 246.335	147 / 247.267	155 / 264.314	- / 580.576	4,048 . 8,226.707
Total Procurement and Support	5,999.408	331.230	178.805	53.559	-	53.559	325.213	246.335	247.267	264.314	580.576	8,226.707
Apache Sensors Life Extension & Upgrade Installation Cost	657 / 0.000	93 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	750 / -
AH-64A MISC Mods \$5M or less (no P3a set) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Apache Transformation (no P3a set) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Modernized TADS/PNVS (M-TADS) Installation Cost	499 / 0.000	43 / -	23 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	565 / -
Video from UAS Interoperability Teaming (VUIT-2) Installation Cost	24 / 0.000	84 / -	108 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	216 / -
Apache Product Improvements Installation Cost	972 / 23.500	- / -	60 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,032 / 23.500
Lightweight Missile Launcher (LWML) Installation Cost	0 / 0.000	362 / -	160 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	522 / -
Apache Upgrades and Remanufacture Installation Cost	176 / 0.000	60 / -	23 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	259 / -
Modernized Day Side Assembly (M-DSA), Phase1 Installation Cost	0 / 0.000	- / -	17 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / -
Fire Control Radar (FCR) Installation Cost	0 / 0.000	24 / -	3/ -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / -
Apache Block III Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Apache Training Aids, Devices, Simulators & Simul Installation Cost	1 / 0.000	25 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / -

LI AA6605 - AH-64 MODS Army

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Date: April 2013 Exhibit P-3A, Individual Modification: PB 2014 Army P-1 Line Item Nomenclature:

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

Aircraft / BSA 10: Modification Of Aircraft

AA6605 - AH-64 MODS

**Modification Nomenclature** 

(Modification Number - Modification

Title):

0000 - AH-64 Modifications

Type Modification: Operational & Reliability Models of Systems Affected: Longbow Apache

Improvements and Resolve Obsolescence Issues

Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M						
Airframe Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	72 / -	- / -	- / -	16 / -	- / -	88 / -
Armament Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	276 / -	53 / -	94 / -	52 / -	475 / -
Manned / Unmanned Teaming Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Mission Command Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Sensors Installation Cost	0 / 0.000	- / -	- / -	40 / -	- / -	40 / -	296 / -	78 / -	36 / -	45 / -	91 / -	586 / -
Support Elements Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Training Systems Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total Installation Cost	2,329 / 23.500	691/ -	394 / -	40 / -	- / -	40 / -	368 / -	354 / -	89 / -	155/ -	143/ -	4,563 / 23.500
Total Cost (Procurement + Support + Installation)	6,022.908	331.230	178.805	53.559	-	53.559	325.213	246.335	247.267	264.314	580.576	8,250.207

**UNCLASSIFIED** LI AA6605 - AH-64 MODS Army Page 11 of 30

Exhibit P-3A, Indi	vidual Modific	ation: PB 2	2014 Army								Date: A	pril 2013		
Appropriation / Bo 2031A: Aircraft Pro Aircraft / BSA 10: N	curement, Arm	y / BA 02: <b>I</b>	•		<b>Line Item</b>   6605 - AH-6			re:			(Modification):	ation Nome ation Numb	er - Modific	ation
Models of System	ns Affected: Lo	ongbow Apa	ache		ification: O ents and Re				sues	Related RI	DT&E PEs:			
Manufacturer Informa	tion: Apache Sen	sors Life Exte	ension & Upgr	ade										
Manufacturer Name: Va	arious					M	Manufac	turer Locatio	n: Various					
Administrative Leadtime	e (in Months): 2					P	Production	on Leadtime	(in Months): 1					
Dates	FY 201	2	FY 2013		FY 2014			FY 2015		FY 2016	F'	Y 2017	FY	2018
Contract Dates	Nov 20	11												
Delivery Dates	Dec 20	11												
Installation: Apache Se	ensors Life Extens	on & Upgrade	<u> </u>	Method of Ir	nplementation	n: Modifica	cation			Installation N	lame:			
		Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 201 OCO		FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Eacl Total Cost (		Qty (Each) / otal Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M
All Prior Years		633 / 0.000	48 / 0.000	0 / 0.000	0 / 0.000	- /	1 -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	681 / 0.00
FY 2012		24 / 0.000	45 / -	- / -	- / -	- /	1 -	- / -	- / -	- / -	- / -	- / -	- / -	69 / -

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In	678	9	9	9	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	714
Out	669	12	12	12	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	714

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LI AA6605 - AH-64 MODS

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P-1 Line #18

Exhi	bit P-	3A, I	Indiv	idual	Modi	ficati	on: PE	2014 Arı	my								Date	e: Ap	ril 2013					
2031	•	craft	Proc	urem	ent, A	rmy /	BA 02	Sub Act Modifica	•		<b>Line Item</b>		ature:				(Mo	difica :):	ation Nor ation Nun H-64 Moo	nbei	er - Mod	difica	ation	
Mod	els of	Sys	tems	Affe	cted:	Long	bow A	oache			lification: O ents and Re				ues	Related R	DT&E P	Es:						
Manu	facture	r Info	rmatio	on: AH	-64A N	IISC M	lods \$5N	l or less (n	o P3a	a set)														
Manu	facturer	Nam	e: Vari	ous								Mar	nufacturer Loc	ation	n: Various									
Admii	nistrativ	e Lea	dtime	(in Mor	nths):							Pro	duction Leadt	me (	(in Months):									
	Dat	tes			FY	2012		FY	2013		FY 2014		FY 2015			FY 2016		FY	2017			FY 2	2018	
Contr	act Date	es																						
Delive	ery Date	es																						
				20.14	J- 05N	or less	s (no P3a	set)		Method of I	nplementation	n: NA				Installation I	Name:							
Insta	lation:	AH-64	4A MIS	SC IVIO	าร จอเงเ																			
Insta	lation:	AH-64	4A MIS	SC MOO	IS ĢOIVI		ior Year	s FY 20	12	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	ı	FY 2015	FY 2016	FY 20	17	FY 2018		To Comple	ete	Tota	:al
	lation:		4A MIS	SC Mod	IS \$SIVI	Pr	-	Qty (Eac	:h) /	FY 2013  Qty (Each) / Total Cost (\$ M)	Base  Oty (Each) /	1	Total / Qty (Each)	/	FY 2015  Qty (Each) / Total Cost (\$ M )	FY 2016  Qty (Each) / Total Cost (\$ M)	FY 20° Qty (Eac	h) /	FY 2018  Qty (Each) / Total Cost (\$ N	,		h) /	Qty (Ea	ach) /
	lation (		4A MIS	SC MOO	INICĘ SI	Pr	rior Year	Qty (Eac Total Cost	:h) /	Qty (Each) /	Base  Qty (Each) / Total Cost (\$ M)	OCO Qty (Each)	Total	/ M) 7	Qty (Each) /	Qty (Each) /	Qty (Eac Total Cost (	h) /	Qty (Each) /	и) т	Qty (Each Total Cost (	h) /	Qty (Ea	ach) /
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Instal All Prior FY 201 TO Com	### Company of the co		4A MIS	SC MOO	S \$OW	Pr	Cior Year Oty (Each) / Al Cost (\$ \( \) \(	Oty (Eac Total Cost 100	ch) / (\$ M ) 0.000 / - / - / - / - / - / - / - / - / -	Qty (Each) / Total Cost (\$ M / O / 0.000   Cost (\$ M / O / 0.000   Cost (\$ M / O / O / O / O / O / O / O / O / O /	Base  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -	OCO  Qty (Each), Total Cost (\$ 1	Total / Qty (Each) / Total Cost (\$ - 0 / 0 / - /	/M) 7	Oty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -	Qty (Each) / Total Cost (\$ M ) 0 / 0.000 - / / / / / / / / / / -	Qty (Eac Total Cost (	h) / (\$ M ) 0.000 / - / - / - / - / - / - / - / - / - / -	Qty (Each) / Total Cost (\$ N	0000	Comple  Qty (Each Total Cost (*  0 / (  - /  - /  - /  - /  - /  - /  - /	h) / (\$ M) 0.000 / - / - / - / - / - / - / - / - / -	Oty (Ea Total Cost	ach) / st (\$ M 0 / 0.00
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Instal All Prior FY 201 FY 201 FY 201 FY 201 FY 201 FY 201 TO Con Total	Ilation ( Years 2 3 4 5 6 7 8 hiplete	Cost	dule FY	2012		Pr	ior Year  Oty (Each) / al Cost (\$ A \)  0 / 0.0  0 / 0.0  0 / 0.0  0 / 0.0  0 / 0.0  0 / 0.0  0 / 0.0  FY 20	Oty (Eac Total Cost 100	ch) / (\$ M ) 0.000 / - / - / - / - / - / - / - / - / - / -	Qty (Each) / Total Cost (\$ M )	Base  Oty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -	OCO  Oty (Each). Total Cost (\$ I  - / - / - / - / - / - / - / - / - / -	Total / Oty (Each) / Total Cost (\$ - 0 / 0 / - / - / - / / / / / / / / /	// M/) 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Oty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Oty (Eac Total Cost (0 /	h) / (\$ M ) 0.000 / - / - / - / - / - / - / - / - / - / -	Qty (Each) / Total Cost (\$ N	FY 2	Comple  Oty (Each Total Cost (:	h) / (\$ M) 0.000 / - / - / - / - / - / - / - / - / -	Oty (Ea Total Costs) 0	ach) / st (\$ M 0 / 0.00

LI AA6605 - AH-64 MODS

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P-1 Line #18

Exh	ibit P-	3A, I	ndivi	dual	Modi	fication	on: PB 2	014 Army							Date: A	pril 2013		
203		craft	Proc	urem	ent, A	rmy /	BA 02: I	ub Activity Modification		<b>1 Line Item</b> 16605 - AH-6		ture:			(Modific	ation Nome ation Numb AH-64 Modi	er - Modific	ation
Mod	dels of	Sys	tems	Affe	cted:	Long	bow Apa	che		dification: Conents and Re			sues	Related R	DT&E PEs:			
Manı	ufacture	r Info	rmatio	n: Ap	che T	ransfo	rmation (r	o P3a set)										
Manu	ufacture	Nam	e: NA								Manu	facturer Location	on: NA					
Admi	inistrativ	e Lea	dtime (	in Mor	ths):						Produ	ıction Leadtime	(in Months):					
	Dat	es			FY	2012		FY 2013		FY 2014		FY 2015		FY 2016	F	Y 2017	FY	2018
Cont	ract Dat	es																
Deliv	ery Date	es																
Insta	Illation:	Apacl	he Tra	nsform	ation (r	o P3a	set)		Method of I	mplementation	n: NA			Installation	Name:			
						Pr	ior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Insta	llation	Cost					ty (Each) / al Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M
All Pric	or Years						0 / 0.000	0 / 0.000	0 / 0.00	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.00
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FY 201							0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
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-	16							,	,			-		- / -	- / -	- / -	- / -	- / -
FY 201							0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -					
FY 201	17						0 / 0.000	- / - - / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	-	
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FY 201 FY 201 FY 201 To Cor	17 18 mplete	Sched		2012			0 / 0.000 0 / 0.000	- <i>I</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- 1 -	- / -	- / -
FY 201 FY 201 FY 201 To Cor	17 18 mplete	Sched		2012	4	1	0 / 0.000 0 / 0.000 0 / 0.000	- / - - / - - / -	- / - - / -	- / - - / - - / -	- <i>l l</i> -	- / -	- <i>l l</i> -	- / -	- / -	- / - - / - - / -	- / - - / - - / -	- / -
FY 201 FY 201 FY 201 To Cor	17 18 mplete		FY	1	4	1 -	0 / 0.000 0 / 0.000 0 / 0.000 FY 201	- / - - / - - / -	- / - - / - - / -	- / - - / - - / -	- / - - / - - / - FY 2015	- / - - / - - / -	- / - - / - - / - FY 2016	- / - - / - - / -	- / - - / -	- / - / - / - / - / - / - / - / - / - /	- / / / -	- / - - / - - / -

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Exhibit P-3A, Indiv	idual Modification: P	B 2014 Army				Date: April 2013	
2031A: Aircraft Prod	dget Activity / Budge curement, Army / BA 0 odification Of Aircraft		<b>P-1 Line Item No</b> AA6605 - AH-64			Modification Nome (Modification Number Title): 0000 - AH-64 Modifi	er - Modification
Models of Systems	S Affected: Longbow A		<b>De Modification:</b> Open provements and Reso	rational & Reliability live Obsolescence Issues		DT&E PEs:	
Manufacturer Informati	on: Modernized TADS/PNV	'S (M-TADS)			·		
Manufacturer Name: Loc	kheed Martin			Manufacturer Location: O	rlando, FL		
Administrative Leadtime	(in Months): 2			Production Leadtime (in M	fonths): 24		
Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Dec 2011					
Contract Batos	<u> </u>	Dec 2013					

Installation: Modernized TAD	OS/PNVS (M-TADS)		Method of Im	nplementation	: Modification			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)			
All Prior Years	499 / 0.000	43 / 0.000	23 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	565 / 0.000
FY 2012	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	0 / 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	499 / 0.000	43 / -	23 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	565 / -

### Installation Schedule

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			FY 2	2012			FY	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	499	11	10	10	12	-	-	6	9	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	565
Out	499	11	10	10	12	-	-	6	9	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	565

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Exhibit P-3A, Indi	vidual Modific	ation: PB 2	2014 Army							Date: A	pril 2013		
Appropriation / B 2031A: Aircraft Pro Aircraft / BSA 10: N	curement, Arm	ny / BA 02: <b>I</b>			<b>I Line Item</b> .6605 - AH-6					(Modific	cation Nom cation Numb AH-64 Modi	ber - Modific	cation
Models of System	ns Affected: Lo	ongbow Apa	ache			•	al & Reliability		Related R	DT&E PEs	:		
Manufacturer Informa	tion: Video from l	JAS Interoper	rability Teami	ng (VUIT-2)									
Manufacturer Name: So	cience and Engine	ering Services,	, Inc			Ma	anufacturer Locati	ion: Huntsville,	AL				
Administrative Leadtime	e (in Months):					Pr	oduction Leadtime	e (in Months):					
Dates	FY 20°	12	FY 2013	3	FY 2014		FY 2015		FY 2016	F	Y 2017	FY	2018
Contract Dates	Apr 20	10											
Delivery Dates													
Installation: Video from	n UAS Interoperab	ility Teaming (	VUIT-2)	Method of I	mplementatio	n: .			Installation I	Name:			
		Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 201 OCO	4 FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each Total Cost (		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
All Prior Years		24 / 0.000	84 / 0.000	108 / 0.000	0 / 0.000	- /	- 0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	216 / 0.000
FY 2012		0 / 0.000	- / -	- / -	- / -	- /	- 1 -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013		0 / 0.000	- / -	- / -	- / -	- /		- / -	- / -	- / -	- / -	- / -	- / -
FY 2014		0 / 0.000	- / -	- / -	- / -	- /		- / -	- / -	- / -	- / -	- / -	- / -
FY 2015		0 / 0.000		- / -	- / -	- /		- / -	- / -	- / -	- / -	- / -	- / -
FY 2016		0 / 0.000	- / -	- / -	- / -	- /		- / -	- / -	- / -	- / -	- / -	- / -
FY 2017		0 / 0 000	_ / _	_ / _	_ / _	_ /	_   _ / _	_ / _	_ / _	_ / _	_ / _	_ / _	- / -

Installation Schedule

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			FY 2	012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	:018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	84	36	36	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	192
Out	84	36	36	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	192

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Exhibit P-3A, Indi	vidual Modific	ation: PB 2	2014 Army							Date: A	pril 2013		
Appropriation / B 2031A: Aircraft Pro Aircraft / BSA 10: I	ocurement, Arm	ny / BA 02: <b>f</b>			<b>1 Line Item</b> 46605 - AH-6					(Modific	ation Nome ation Numb AH-64 Modi	er - Modific	ation
Models of Systen	ns Affected: Lo	ongbow Apa	ache			•	al & Reliability osolescence Is		Related R	DT&E PEs:			
Manufacturer Informa	tion: Apache Pro	duct Improve	ments										
Manufacturer Name: V	arious					Ma	anufacturer Locati	on: Various					
Administrative Leadtim	e (in Months):					Pro	oduction Leadtime	e (in Months):					
Dates	FY 201	12	FY 2013	3	FY 2014		FY 2015		FY 2016	F	Y 2017	FY	2018
Contract Dates					Feb 2012								
Delivery Dates					Mar 2012								
-													
Installation: Apache P	roduct Improvemer	nts		Method of	Implementation	n: .			Installation I	Name:			
		Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 201 OCO	4 FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M	Qty (Each) / Total Cost (\$ M )	Qty (Each Total Cost (\$		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
All Prior Years		772 / 19.200	0 / 0.000	0 / 0.00	0 / 0.000	- /	- 0/0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	772 / 19.200
FY 2012		100 / 1.800	- / -	60 / -	- / -	- /	/ -	- / -	- / -	- / -	- / -	- / -	160 / 1.800
FY 2013		100 / 2.500	- / -	- / -		- /		- / -	- / -	- / -	- / -	- / -	100 / 2.500
FY 2014		0 / 0.000	- / -	- / -	- / -	- /	/ -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015		0 / 0.000	- / -	- / -	- / -	- /	-   - / -	- / -	- / -	- / -	- / -	- / -	- / -

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	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
ln	972	-	-	-	-	15	15	15	15	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,042
Out	972	-	-	-	-	15	15	15	15	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,042

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Exhib	hibit P-3A, Individual Modification: PB 2014 Army															Date: April 2013														
2031	Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of Aircraft															ure:							Modification Nomenclature (Modification Number - Modification Title): 0000 - AH-64 Modifications							
Models of Systems Affected: Longbow Apache  Type Modification Improvements and														•			•		s	Rel	ated R	DT	&E PEs:							
Manuf	acture	r Info	rmatio	n: L	ightw	eight N	issile La	unch	ner (LWML	)																				
Manufa	Manufacturer Name: Lockheed Martin														Manufacturer Location: Orlando, FL															
Administrative Leadtime (in Months):												Production Leadtime (in Months):																		
	Dat	es			F	Y 2012			FY 20	13		FY			FY 2015					016		F	Y 2017	i		FY 2018				
Contra	ct Date	es			S	ep 200	7																							
Deliver	ry Date	es																												
Installation: Lightweight Missile Launcher							LWML) Prior Yea	ars	FY 2012					ementation: Modifi FY 2014 FY 2 Base OC		2014 FY 2014		FY	FY 2015		Installation N		Name: FY 2017		FY 2018		To mplete	То	otal	
Install	ation (	Cost				-	Qty (Each)				Qty (Each) / Total Cost (\$ M )		Qty (Each) / Total Cost (\$ M )		Qty (Each) / Total Cost (\$ M )		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ M )		Each) / ost (\$ M )	Qty (Each) / Total Cost (\$ M)		Qty (Each) / Total Cost (\$ I		
All Prior \	Years						0/0	.000	362 / 0.00	00	0 / 0.000		0 / 0.000		- / -		0 / 0.000		0 / 0.000		0 / 0.000		0 / 0.000		0 / 0.000	0 / 0.000		362 / 0.0		
FY 2012							0/0	.000	- / -		160 / -	- / -			- / -		- / -		- / -		- / -		- / -	-	- / -	- / -		160 / -		
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FY 2014							0/0		- / -		- / -		/ -	+	- / -				- / -	_			- / -		. / -		- / -		- / -	
FY 2015 FY 2016							0/0		- / -		- / -	-	/ -	- / -		- / -			- / -	-	- / -		- / -		. / -		- / -		- / -	
FY 2016							0/0		- / -		- / -		/ -	-	- / -		- / -		- / -		- / -		- / -		. / -	- / -			- / -	
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Install	ation S	Sched	ule																											
	FY 2012				FY 2013			FY 20		014		FY 2015				FY:	2016			FY 2	2017		F١	Y 2018						
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In	362	40	40	4	40	40 -	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	522	
Out	-	90	90	6	91	91 4	10 40	4	0 40	-	-   -	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	522	
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Installation: Apache Upgrades an  Installation Cost All Prior Years FY 2012 FY 2013 FY 2014 FY 2015		odif	icatio	n: P	B 2	014 P	rmy															Date	: Ap	rii 201	3							
2031	٠: Air	craft	Proc	uremer	nt, Ar	my /	BA 0				-					Nome 4 MO		ure:							(Mod Title)	difica ):	<b>ation N</b> ation N H-64 N	umb	er - N	lodific	ation	
Mode	ls of	Sys	tems	Affect	ed:	Longl	oow A	Αра	che			ype Mo								sue	:S	R	Related F	RDT8	&E P	Es:						
Manuf	acture	r Info	rmatio	n: Apac	he Up	grade	s and	Rer	nanuf	cture	,																		•			•
Manufa	cturer	Nam	e: Boei	ng													Manu	facture	er Locati	on: M	/lesa, AZ											
Admini	strative	e Lea	dtime (	in Month	s):												Produ	ction I	_eadtime	e (in N	Months):											
	Dat	tes			FY 2	012			F	Y 201	3			FY 2	014			FY	2015			F	Y 2016			FY	2017		$\top$	FY	2018	
Contra	ct Date	es			Mar 2	2006																										
Deliver																										+-						
Installa	tion:	Apacl	ne Upg	rades an	id Rer							lethod of	<del></del> -	FY 20	)14	FY	2014	FY	2014			Ir	nstallation			_			_	· · ·		
							or Yea		FY 2		_	FY 2013		Bas		_	co		otal		Y 2015	_	FY 2016		Y 201		FY 20			plete	_	otal
Installa	ation (	Cost					ty (Each I Cost (\$		Qty (E Total Co			Qty (Each) / otal Cost (\$ /\		Qty (Ea			Each) / ost (\$ M )		(Each) / Cost (\$ M )		ty (Each) / // Cost (\$ M		Qty (Each) / otal Cost (\$ M		ty (Each Il Cost (\$		Qty (Eac Total Cost			Each) / ost (\$ M )		Each) / ost (\$ M )
All Prior	'ears						176 / 0	.000	6	0 / 0.000	0	23 / 0.0	00	0	/ 0.000	-	/ -		0 / 0.000		0 / 0.00	0	0 / 0.00	)	0/0	0.000	0 /	0.000		0 / 0.000	25	59 / 0.000
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Total							176 / 0	.000		60 / -	$\top$	23 / -		-	/ -		/ -		- / -		- / -	$\top$	- / -		- /	-	-	/ -		/ -	2	259 / -
Installa	tion S	Sched	lule			'																										
			FY 2	2012			FY	2013	3			FY 201	4			FY	2015			FY	2016			FY 2	017			FY	2018			1
	APY	1	2	3	4	1	2	3	4	1	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
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Out	176	3	4	3	3	5	6		6	6 -	. [	-	-	-	-	-	-	-	- 1	-	-	-	-	-	-	_	-	-	-	-	-	212

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Exhibit P-3A, Indiv	idual Modification: P	B 2014 Army				Date: April 2013	
2031A: Aircraft Prod	dget Activity / Budge curement, Army / BA 0 odification Of Aircraft				_	Modification Nome (Modification Number Title): 0000 - AH-64 Modifi	er - Modification
Models of Systems	s Affected: Longbow A	•	Type Modification: Open mprovements and Research	erational & Reliability blve Obsolescence Issue		DT&E PEs:	
Manufacturer Informati	on: Modernized Day Side	Assembly (M-DSA)	, Phase1				
Manufacturer Name: Loc	kheed Martin			Manufacturer Location: O	rlando, FL		
Administrative Leadtime	(in Months): 6			Production Leadtime (in I	Months): 30		
Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Sep 2011						
Delivery Dates	Mar 2013						

Installation: Modernized Day	Side Assembly (M-DSA),	Phase1	Method of Im	nplementation	: Modification			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)			
All Prior Years	0 / 0.000	0 / 0.000	11 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	11 / 0.000
FY 2012	0 / 0.000	- / -	6/-	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6/ -
FY 2013	0 / 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	17 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / -

#### Installation Schedule

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			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	:018			
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In	-	-	-	-	-	-	1	6	10	26	45	52	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158
Out	-	-	-	-	-	-	-	-	17	26	45	52	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	158

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Exhibit P-3A, Indi	vidual Modific	ation: PB 2	2014 Army							Date: A	pril 2013		
Appropriation / Bo 2031A: Aircraft Pro Aircraft / BSA 10: N	curement, Arm	y / BA 02: N			<b>Line Item</b> 6605 - AH-6					(Modific	ation Nome eation Numb AH-64 Modi	per - Modific	eation
Models of System	ıs Affected: Lo	ngbow Apa	iche			•	al & Reliability osolescence Is	sues	Related R	DT&E PEs:			
Manufacturer Informat	tion: Fire Control	Radar (FCR)											
Manufacturer Name: Lo	ngbow Limited					Ма	anufacturer Location	on: Owego, N	<u> </u>				
Administrative Leadtime	e (in Months): 4					Pro	oduction Leadtime	(in Months): 2	24				
Dates	FY 201	2	FY 2013		FY 2014		FY 2015		FY 2016	F	Y 2017	FY	2018
Contract Dates	Jan 201	12											
Delivery Dates	Jan 201	14											
	,												
Installation: Fire Contro	ol Radar (FCR)			Method of I	mplementation	n: Modificat	tion		Installation I	Name:			
		Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	4 FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) Total Cost (\$		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)
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FY 2015		0 / 0.000	- / -	- / -	- / -	- /	- / -	- / -	- / -	- / -	- / -	- / -	- / -

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Out	-	7	8	6	3	-	-	2	1	-	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36

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Exh	ibit P-	3A, I	Indiv	idual	Modi	ficati	on: PB 2	2014 Army									Date	: Apr	ril 2013	}				
203		craft	Proc	urem	ent, A	.rmy /	BA 02: I	Sub Activity Modification		<b>1 Line Item</b> A6605 - AH-6							(Mod Title)	lificat :	tion No tion Nu 1-64 M	ımbe	er - Mod	difica	ation	
Mod	lels of	Sys	stems	Affe	cted:	Long	bow Apa	ache		dification: Conents and Re				sues	Relate	d RD	T&E P	Ēs:						
Manı	ufacture	r Info	ormati	on: Ap	ache T	raining	g Aids, De	vices, Simula	tors & Simu															
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Exh	ibit P-	3A, I	ndivi	dual	Modi	ficati	on: PB	2014	Army														Date	e: Ap	ril 201	13				
203		craft	Proc	urem	ent, A	rmy /	Budget BA 02: craft					<b>Line</b>   6605 -				ure:							(Mo	difica e):	ntion Nation N H-64 N	lumb	er - M	odific	ation	
Mod	lels of	Sys	tems	Affe	cted:	Long	jbow Ap	oache		Type I										Re	elated	RD	T&E P	PEs:						
Manu	ıfacture	r Info	rmatio	n: Air	frame																									
Manu	facturer	Name	e: Vari	ous											Manu	facture	er Locati	on: Var	rious											
Admi	nistrativ	e Lead	dtime (	in Mor	ths):										Produ	ction I	_eadtim	e (in Mo	onths):											
	Dat	es			FY	2012			FY 2013	1		FY	2014			FY	2015			FY	2016			FY	2017			FY	2018	
Conti	act Date	es																												
Deliv	ery Date	es																												
Insta	llation:	Airfraı	me							Method	l of Im	pleme	ntation	ı: Modi	fication	s				Ins	stallatio	on Na	me:							
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Exh	ibit P-	3A, I	ndiv	dual	Mod	ificati	on: PB	2014 Arr	ny													Da	ate: A	pril 20	13				
203		craft	Proc	urem	ent, A	rmy /	BA 02:	Sub Acti Modifica			1	<b>Line I</b> 6605 - <i>i</i>				ure:						(M	lodific	ation I ation N	Numb	er - M	odific	ation	
Mod	els of	Sys	tems	Affe	cted:	Long	jbow Ap	ache		Type I								sues		Relat	ed R	DT&E	PEs:						
Manu	facture	r Info	rmatio	n: Arı	nameı	nt																							
Manu	facturer	Nam	e: Vari	ous											Manuf	acture	r Locati	on: Vario	us										
Admi	nistrativ	e Lea	dtime (	in Mor	ths):										Produ	ction L	eadtime	(in Mon	ths):										
	Dat	es			FY	2012		FY:	2013			FY 2	2014			FY	2015			FY 201	6		F	Y 2017			FY	2018	
Contr	act Date	es																											
Deliv	ery Date	es																											
Insta	llation:	Arma	ment							Method	l of Im	plemen	ntation	: Modif	ication					Install	ation l	Name:							
						Pi	rior Years	s FY 20	12	FY 20		FY 20 Bas	014	FY 2	2014		2014 otal	FY 20	015	FY 2	016	FY 2	2017	FY 2	018	To		То	otal
Insta	llation (	Cost					Qty (Each) / fal Cost (\$ M	Qty (Eac		Qty (Ea		Qty (Ea		Qty (E	ach) / st (\$ M )		(Each) / Cost (\$ M )	Qty (Ea	nch) / t (\$ M )	Qty (E Total Co.			Each) / ost (\$ M )	Qty (Ea		Qty (E Total Cos			Each) / ost (\$ M
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Exh	ibit P-	3A, I	ndivi	idual	Modi	ficati	on: P	B 20	14 Arn	ny												Da	te: Ap	ril 201	13				
203		craft	Proc	urem	ent, A	.rmy /	BA 0		<b>b Acti</b> odificat			1	<b>Line Ite</b> i 605 - Al	_	<b>menclat</b> MODS	ure:						(Mo	odifica e):	ation N ation N H-64 N	lumb	er - M	lodific	ation	
Mod	lels of	Sys	tems	Affe	cted:	Long	bow A	Apac	he						rational 8 lve Obso			sues	F	Related	l RI	OT&E	PEs:						
Manı	ıfacture	r Info	rmatio	on: Ma	nned /	Unma	nned T	eamir	ng																				•
Manu	ıfacturer	Name	e: Locl	kheed	Martin										Manuf	acture	r Location	on: Orland	o, FL										
Admi	nistrativ	e Lead	dtime (	(in Mor	nths):										Produc	ction L	.eadtime	(in Month	s):										
	Dat	es			FY	2012			FY 2	2013			FY 201	4		FY 2	2015		F	Y 2016			F۱	2017			FY	2018	
Conti	act Date	es																											
Deliv	ery Date	s																											
Insta	llation:	Mann	ed / U	nmann	ed Tea	ming					Method	l of Im	plementat	<b>ion:</b> Fi	ield Retrofit				lı	nstallati	on N	ame:							
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Exh	ibit P-	3A, I	ndivi	dual	Modi	ficati	on: PB	3 2014	Army														Date:	Apr	il 2013	3				
203		craft	Proc	urem	ent, A	rmy /	BA 02		<b>Activity</b> ification			<b>Line It</b> 6605 - <i>F</i>	_			ure:							(Modit Title):	ficat	tion No tion Nu H-64 M	ımbe	r - Mc	odific	ation	
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Exh	ibit P-	3A, I	ndiv	idual	Modi	ficati	on: PB	201	4 Army													D	ate: A	۱	il 2013				
203		craft	Proc	urem	ent, A	rmy /	BA 02		<b>Activity</b> dification			<b>Line</b> 6605 -				ure:						( <i>N</i>	Modifi ïtle <b>)</b> :	cati	ion Non ion Num -64 Mod	ber - N	/lodific	cation	
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	Dat	tes			FY	2012			FY 2013			FY	2014			FY	2015			FY 2	2016			FY 2	2017		FY	2018	
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Exh	ibit P-	3A, I	ndiv	dual	Modi	ficati	on: PB	2014 Ar	my														Date	: Ap	ril 201	3				
203		craft	Proc	urem	ent, A	rmy /	BA 02:	Sub Ac Modific				<b>Line</b>   6605 -				ture:							(Mod Title)	difica ):	i <b>tion N</b> ition N H-64 N	lumb	er - M	odific	ation	
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Manu	facturer	Name	e: TBD	)											Manu	facture	er Locat	on: TE	BD											
Admi	nistrativ	e Lead	dtime (	in Mor	ths):										Produ	iction I	_eadtim	e (in M	/lonths)	:										
	Dat	es			FY	2012		FY	2013			FY	2014			FY	2015			FY	2016			FY	2017			FY	2018	
Conti	act Date	es																												
Deliv	ery Date	es																												
Insta	llation:	Suppo	ort Ele	ments						Method	d of Im	pleme	ntation	n: .						Ins	stallatio	on Nar	ne:							
						Pr	ior Years	FY 20	12	FY 2		FY 2 Ba	2014	FY	2014 CO		2014 otal	FY	Y 2015		FY 201	6	FY 201	7	FY 20	18	To		To	otal
Insta	llation (	Cost					ity (Each) / al Cost (\$ M	Qty (Ea		Qty (Ea		Qty (E			Each) / ost (\$ M )		(Each) / Cost (\$ M )		y (Each) / Cost (\$ M		Qty (Each) al Cost (\$		Qty (Each		Qty (Ead Total Cost		Qty (E	ach) / st (\$ M )		(Each) /
All Pric	r Years						0 / 0.00	0 0	0.000	0	/ 0.000	(	0 / 0.000		- / -		0 / 0.000	)	0 / 0.0	00	0/0	.000	0/0	0.000	0 /	0.000	(	0.000		0 / 0.00
FY 201							0 / 0.00	-	/ -		/ -		/ -		- / -		- / -		- / -	_	- /		- /	_		/ -		/ -		- / -
FY 201							0 / 0.00	_	/ -		/ -		/ -		- / -		- / -		- / -	_	- /	_	- /			1 -		/ -		- / -
FY 201							0 / 0.00	-	/ - / -		/ -		/ -		- / -		- / -		- / -	_	- /		- /			/ - / -		/ -		- / -
FY 201							0 / 0.00	-	/ -		/ -		/ -	-	. / -		- / -		- / -	_	- /		- /	_		/ -		/ -	+	- / -
FY 201							0 / 0.00	_	/ -		/ -		/ -		- / -		- / -		- / -	_	- /		- /			/ -		/ -		- / -
FY 201							0 / 0.00	+	/ -		/ -		/ -	-	- / -		- / -		- / -		- /		- /			/ -		/ -	+	- / -
To Cor							0 / 0.00	_	/ -		/ -		/ -		- / -		- / -		- / -	_	- /		- /			/ -		/ -		- / -
Total	•						0 / 0.00	0 -	/ -	-	/ -	-	/ -		- / -		- / -		- / -		- /	-	- /	-	-	1 -	-	/ -		- / -
Insta	llation	Sched	lule									•																		
			FY	2012			FY 20	13		FY	2014			FY	2015			FY 2	2016			FY	2017			FY	2018			
	APY	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
In	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LI AA6605 - AH-64 MODS
Army

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P-1 Line #18

Exh	ibit P-	3A, I	ndiv	dual	Mod	ificati	on: PB	2014 Arn	ny														Date	Ар	ril 2013	3				
203		craft	Proc	urem	ent, A	rmy /	BA 02:	Sub Acti Modificat			1	<b>Line It</b> 6605 - <i>F</i>				ure:							(Mod Title)	ifica	tion No tion No H-64 M	ımbe	er - Mo	odific	cation	
Mod	lels of	Sys	tems	Affe	cted:	Long	gbow Ap	pache				ficatio								Rela	ated	RDT	&E PE	s:						
Manu	ıfacture	r Info	rmatio	n: Tra	ining	Systen	ns																							
Manu	facturer	Nam	e: Boe	ing / L	SI Inc										Manuf	acture	er Locati	on: St.	Louis,	MO / J	acksoi	nville, l	FL							
Admi	nistrativ	e Lea	dtime (	in Mor	nths): 3										Produ	ction L	_eadtime	e (in Mo	onths):											
	Dat	es			FY	2012		FY 2	2013			FY 2	014			FY	2015			FY 20	)16			FY	2017			FY	2018	
Contr	act Date	es																												
Deliv	ery Date	es																												
Insta	llation:	Traini	ing Sys	stems						Method	of Im	plement	tation	: Field	Retrofi	ts				Insta	llatio	n Nam	e:							
						Pi	rior Years	s FY 201		FY 20		FY 20 Base	14	FY 2	2014	FY	2014 otal	FY	2015	FY	2016	F	Y 2017	,	FY 201	18	To		To	otal
Insta	llation (	Cost					Qty (Each) / tal Cost (\$ M	Qty (Each		Qty (Ea		Qty (Eac Total Cost		Qty (E Total Cos	ach) / st (\$ M )		(Each) / Cost (\$ M )	Qty (I	Each) / ost (\$ M )		(Each) /		ty (Each) al Cost (\$		Qty (Each		Qty (Ea			Each) /
All Prio	r Years						0 / 0.00	0 0 0 / 0	0.000	0	/ 0.000	0 /	0.000	-	/ -		0 / 0.000		0 / 0.000		0 / 0.0	000	0 / 0.	000	0/0	0.000	0	0.000		0 / 0.00
FY 201							0 / 0.00		_		/ -		/ -		/ -		- / -		- / -		- / -		- /	_	- /			/ -		- / -
FY 201							0 / 0.00				/ -		1 -		/ -		- / -		- / -		- / -		- /		- /			/ -		- / -
FY 201							0 / 0.00				/ -		/ - / -		/ -		- / -		- / - - / -		- / -		- /		- /			/ -		- / -
FY 201 FY 201							0 / 0.00		_		/ -		/ -		/ -		- / -	+	- / - - / -		- / -		- /	_	- /			/ -	+	- / -
FY 201							0 / 0.00	-			/ -		/ -		/ -		- / -		- / -		- / -		- /	_	- /			/ -		- / -
FY 201							0 / 0.00		_		/ -		1 -		/ -		- / -	-	- / -		- / -		- /	_	- /			/ -	+	- / -
To Cor							0 / 0.00				/ -		1 -		/ -		- / -		- / -		- / -		- /		- /			/ -		- / -
Total							0 / 0.00	00 - /	-	-	/ -	-	/ -	-	/ -		- / -		- / -		- / -		- /	-	- /	<i>-</i>	-	/ -		- / -
Insta	llation	Sched	lule																											
			FY	2012			FY 20	13		FY 2	2014			FY 2	2015			FY 20	)16			FY 2	2017			FY	2018			
	APY	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
			T -	T -	_	-	-		_	_	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
In	-	-							_																					

LI AA6605 - AH-64 MODS
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P-1 Line #18

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements: 0203744A

MDAP/MAIS Code(s):

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	10,812.035	69.012	39.135	149.764	-	149.764	89.975	144.811	280.431	406.910	6,612.220	18,604.293
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	10,812.035	69.012	39.135	149.764	-	149.764	89.975	144.811	280.431	406.910	6,612.220	18,604.293
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	10,812.035	69.012	39.135	149.764	-	149.764	89.975	144.811	280.431	406.910	6,612.220	18,604.293
	(The following	Resource Sum	mary rows are fo	r informational p	ourposes only. Ti	he corresponding	g budget request	s are documente	ed elsewhere.)	Ŷ	3	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **Description:**

Helicopter Mods

(Units in Thousands)

Gross/Weapon System Unit Cost

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 Armys 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 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, and Hook Load Measurement System.

Secor	ndary Dis	tribution		FY 2012		FY 2013	3	FY 201 Base		FY 201 OCO	-	FY 20 <sup>2</sup> Total		FY 20	15	FY 20	016	FY 2	017	FY 2	2018
Army	Quantity				-		-		-		-		-		-		-		-		-
	Total Obl	igation Authority		69	9.012	3	9.135	1-	49.764		-	1	149.764		89.975		144.811		280.431		406.910
	Item Sche	dule		Р	rior Yea	'S		FY 2012			FY 2013		F١	2014 Ba	ise	FY	2014 O	co	FY	2014 To	tal
Item Nome	nclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
0000 - CH-47 C	argo	P3A		-	-	10,812.035	-	-	69.012	-	-	39.135	-	-	149.764	-	-	-	-	-	149.764

**UNCLASSIFIED** 

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements: 0203744A

#### MDAP/MAIS Code(s):

Item Sche	dule		Р	rior Yeaı	rs		FY 2012			FY 2013		FY	2014 Ba	ise	FY	2014 O	co	FY	2014 To	otal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
Total Gross/Weapon System Cost					10,812.035			69.012			39.135			149.764			-			149.764
Item Sche	dule			FY 2015			FY 2016			FY 2017			FY 2018		To	Comple	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
0000 - CH-47 Cargo Helicopter Mods	P3A		-	-	89.975	-	-	144.811	-	-	280.431	-	-	406.910	-	-	6,612.220	-	-	18,604.293
Total Gross/Weapon System Cost					89.975			144.811			280.431			406.910			6,612.220			18,604.293

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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 14 Base procurement dollars in the amount of \$149.764 million supports 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, Aircraft Component Parts-Marking, and Hook Load Measurement System.

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Exhibit P-3A, Individual Modification: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity 2031A: Aircraft Procurement, Army / BA 02: Modification Aircraft / BSA 10: Modification Of Aircraft		Modification Nomenclature (Modification Number - Modification Title): 0000 - CH-47 Cargo Helicopter Mods
Models of Systems Affected: CH 47	Type Medification: Uncloseified	Polated PDT&F DEc:

Models of Systems Affected: C	H-4 <i>1</i>		Type Modi	itication: U	nclassified			Related R	DI&E PES:			
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	10,812.035	69.012	39.135	149.764	-	149.764	89.975	144.811	280.431	406.910	6,612.220	18,604.293
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	10,812.035	69.012	39.135	149.764	-	149.764	89.975	144.811	280.431	406.910	6,612.220	18,604.293
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	10,812.035	69.012	39.135	149.764	-	149.764	89.975	144.811	280.431	406.910	6,612.220	18,604.293
	(The following	Resource Sum	mary rows are fo	or informational p	ourposes only. Th	he corresponding	budget request	s are documente	ed elsewhere.)	1		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### **Description:**

The major modifications include 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, Aircraft Component Parts-Marking, and Hook Load Measurement System.

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

Date: April 2013

**Modification Nomenclature** 

(Modification Number - Modification

Title):

0000 - CH-47 Cargo Helicopter Mods

Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs:

				FY 2014	FY 2014	FY 2014					То	
	Prior Years	FY 2012	FY 2013	Base	oco	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Financial Plan	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) / Total Cost (\$ M)	Qty (Each) /	Qty (Each) /				
rocurement	Total Cost (\$ IVI )	Total Cost (\$ NI)	Total Cost (\$ IVI )	Total Cost (\$ W )	Total Cost (\$ NI)	Total Cost (\$ W )	Total Cost (\$ IVI )	Total Cost (\$ W )	Total Cost (\$ W )	Total Cost (\$ IVI )	Total Cost (\$ W )	Total Cost (\$ 10
Cargo On/Off Loading System (COOLS) and COOLS BPS												
A Kits												
Recurring												
Ballistic Protection System (BPS)	74 / 10.700	- / -	52 / 12.117	47 / 11.056	- / -	47 / 11.056	- / -	- / -	- / -	- / -	- / -	173 / 33.87
PM Support	0 / 0.607	- / -	- / 1.253	- / 0.770	- / -	- / 0.770	- / 0.784	- / 0.798	- / 0.631	- / 0.264	- / -	- / 5.10
Cargo Handling Floor System	0 / 33.100	- / -	52 / 11.016	72 / 15.396	- / -	72 / 15.396	72 / 15.674	72 / 15.957	56 / 12.634	23 / 5.282	- / -	347 / 109.05
Cargo Handling Floor System (OCO)	26 / 29.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	26 / 29.30
PM Support (OCO)	0 / 8.010	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 8.01
Subtotal Recurring	100 / 81.717	- / -	104 / 24.386	119 / 27.222	- / -	119 / 27.222	72 / 16.458	72 / 16.755	56 / 13.265	23 / 5.546	- / -	546 / 185.34
Total, Cargo On/Off Loading System (COOLS) and COOLS BPS	100 / 81.717	- / -	104 / 24.386	119 / 27.222	- / -	119 / 27.222	72 / 16.458	72 / 16.755	56 / 13.265	23 / 5.546	- / -	546 / 185.34
Advanced Chinook Rotor Blade												
A Kits												
Recurring												
Rotor Blades Shipsets	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	33 / 11.234	148 / 50.871	405 / 141.309	3,098 / 1,100.533	3,684 1,303.94
PM Support	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.562	- / 2.544	- /7.052	- / 55.563	- / 65.72
Subtotal Recurring	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	33 / 11.796	148 / 53.415	405 / 148.361	3,098 / 1,156.096	3,684 1,369.66
Total, Advanced Chinook Rotor Blade	0/0.000	- / -	- / -	- / -	- / -	- / -	- /-	33 / 11.796	148 / 53.415	405 / 148.361	3,098 / 1,156.096	3,684 1,369.66
Airframe Optimization and Payload Buyback												
A Kits												
A Kits	0 / 0.000	- / -	- / -	- /2.147	- / -	- /2.147	- /0.787	- /2.252	- /5.964	- /8.966	- / 52.305	- /72.42
A Kits Recurring	0 / 0.000	- / -	- / -	- /2.147 - /2.147	- / -	- /2.147 - /2.147	- /0.787 - /0.787	- /2.252 - /2.252	- /5.964 - /5.964	- /8.966 - /8.966	- / 52.305 - / 52.305	
A Kits  Recurring  PM Support		1										
A Kits  Recurring  PM Support  Subtotal Recurring		1										- /72.42
A Kits  Recurring  PM Support  Subtotal Recurring  Non-Recurring	0 / 0.000	- / -	- / -	- /2.147	- / -	- /2.147	- /0.787	- /2.252	- /5.964	- /8.966	- /52.305 - /	- /72.42 - /72.42 - 1,448.56

LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

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Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

Date: April 2013

**Modification Nomenclature** 

(Modification Number - Modification

Title):

0000 - CH-47 Cargo Helicopter Mods

Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs:

				FY 2014	FY 2014	FY 2014					То	
	Prior Years	FY 2012	FY 2013	Base	oco	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M							
Crash Resistant Troop Seats			•									
A Kits												
Recurring												
Installation Kits	0 / 0.000	- / -	- / -	- / -	- / -	- / -	70 / 0.229	210 / 0.698	210 / 0.711	69 / 0.238	- / -	559 / 1.87
PM Support	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.226	- / 0.691	- / 0.703	- / 0.088	- / -	- / 1.70
Subtotal Recurring	0 / 0.000	- / -	- / -	- / -	- / -	- / -	70 / 0.455	210 / 1.389	210 / 1.414	69 / 0.326	- / -	559 / 3.58
B Kits			1									
Recurring												
Seats SS (31 seats per SS)	0 / 0.000	- / -	- / -	- / -	- / -	- / -	70 / 4.115	210 / 12.566	210 / 12.792	69 / 4.279	- / -	559 / 33.752
Subtotal Recurring	0/0.000	- / -	- / -	- / -	- / -	- / -	70 / 4.115	210 / 12.566	210 / 12.792	69 / 4.279	- / -	559 / 33.75
Total, Crash Resistant Troop Seats	0 / 0.000	- / -	- / -	- / -	- / -	- / -	140 / 4.570	420 / 13.955	420 / 14.206	138 / 4.605	- / -	1,118 / 37.33
Crashworthy Pilot Seats			1									
A Kits												
Recurring												
Crashworthy Seats Pilot CoPilot	0 / 0.000	- / -	- / -	120 / 5.132	- / -	120 / 5.132	100 / 4.354	100 / 4.432	240 / 10.829	240 / 11.024	550 / 26.039	1,350 / 61.810
PM Support	0 / 0.000	- / -	- / -	- / 0.257	- / -	- / 0.257	- / 0.337	- / 0.238	- / 0.557	- / 0.591	- / 1.438	- / 3.418
Subtotal Recurring	0 / 0.000	- / -	- / -	120 / 5.389	- / -	120 / 5.389	100 / 4.691	100 / 4.670	240 / 11.386	240 / 11.615	550 / 27.477	1,350 / 65.22
Total, Crashworthy Pilot Seats	0 / 0.000	- / -	- / -	120 / 5.389	- / -	120 / 5.389	100 / 4.691	100 / 4.670	240 / 11.386	240 / 11.615	550 / 27.477	1,350 / 65.22
Cargo Platform Health Environment												
A Kits												
Recurring												
Kits	0 / 0.000	50 / 7.575	- / -	125 / 23.019	- / -	125 / 23.019	20 / 3.683	27 / 4.972	14 / 2.578	17 / 3.131	14 / 2.578	267 / 47.536
CPHE Software Upgrade	0 / 0.000	- / -	- / -	- / 0.160	- / -	- / 0.160	- / 0.163	- / 0.166	- / 0.169	- / 0.172	- / 0.175	- / 1.00
Services	0 / 0.000	- / -	- / -	- /2.389	- / -	- /2.389	- / 2.325	- / 1.874	- / 1.874	- / -	- / -	- / 8.462
PM Support	0 / 0.000	- / 0.459	- / -	- / 1.279	- / -	- / 1.279	- / 0.308	- / 0.351	- / 0.231	- / 0.178	- / 0.138	- / 2.94
Subtotal Recurring	0 / 0.000	50 / 8.034	- / -	125 / 26.847	- / -	125 / 26.847	20 / 6.479	27 / 7.363	14 / 4.852	17 / 3.481	14 / 2.891	267 / 59.94
Non-Recurring												
NRE	0 / 0.000	- / 1.614	- /10.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.714
Subtotal Non-Recurring	0 / 0.000	- /1.614	- /10.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /11.71
Total, Cargo Platform Health Environment	0/0.000	50 / 9.648	- /10.100	125 / 26.847	- / -	125 / 26.847	20 / 6.479	27 / 7.363	14 / 4.852	17/3.481	14 / 2.891	267 / 71.66

LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

Date: April 2013

**Modification Nomenclature** 

(Modification Number - Modification

Title):

0000 - CH-47 Cargo Helicopter Mods

Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (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 Kits												
Recurring												
Boot & Link Assemblies	66 / 4.900	- / -	- / -	60 / 4.619	- / -	60 / 4.619	100 / 7.837	100 / 7.978	112 / 9.096	62 / 5.126	- / -	500 / 39.55
PM Support	0 / 0.000	- / -	- / -	- / 0.482	- / -	- / 0.482	- / 0.392	- / 0.399	- / 0.455	- / 0.270	- / -	- / 1.99
Subtotal Recurring	66 / 4.900	- / -	- / -	60 / 5.101	- / -	60 / 5.101	100 / 8.229	100 / 8.377	112 / 9.551	62 / 5.396	- / -	500 / 41.5
Non-Recurring			•	1								
Tools and Facilitization	0 / 0.000	- / -	- / -	- /5.028	- / -	- /5.028	- / -	- / -	- / -	- / -	- / -	- / 5.0
Subtotal Non-Recurring	0 / 0.000	- / -	- / -	- /5.028	- / -	- /5.028	- / -	- / -	- / -	- / -	- / -	- /5.0
Total, Adjustable Pitch Change Link	66 / 4.900	- / -	- / -	60 / 10.129	- / -	60 / 10.129	100 / 8.229	100 / 8.377	112 / 9.551	62 / 5.396	- / -	500 / 46.5
Engine Improvement			1	1								
A Kits												
Recurring												
T55 Engine Control Unit Prog (ECU)	667 / 45.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	667 / 45.0
New Engines	1,250 / 2,495.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,25 2,495.0
P3 Check Valve	373 / 4.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	373 / 4.9
Next Generation Torque System	404 / 14.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	404 / 14.5
FADEC Continuity Test Set	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	100 / 2.770	100 / 2.820	- / -	- / -	200 / 5.5
Logistics	0 / 39.953	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 39.9
ECU Upgrade	0 / 0.700	- / 0.700	- / -	- / 1.361	- / -	- / 1.361	- / 0.836	- / 0.554	- / 0.564	- / 0.574	- / -	- /5.2
Next Generation Ratio Detector Power Sup	0 / 0.000	- / -	- / -	100 / 1.069	- / -	100 / 1.069	100 / 1.089	100 / 1.108	100 / 1.128	100 / 1.148	- / -	500 / 5.5
RIMFIRE	0 / 0.000	- / 0.400	- / 0.400	- / 0.428	- / -	- / 0.428	- / 0.435	- / 0.443	- / 0.451	- / 0.459	- / 6.428	- /9.4
Digital Maint Panel Upgrade	0 / 0.000	- / 0.825	- / -	50 / 4.410	- / -	50 / 4.410	50 / 4.490	60 / 5.485	80 / 7.445	80 / 7.579	373 / 36.882	693 / 67.1
PM Admin Support	0 / 4.200	- / 0.264	- / 0.021	- / 0.385	- / -	- / 0.385	- / 0.365	- / 0.519	- / 0.643	- / 0.488	- /2.166	- / 9.0
Subtotal Recurring	2,694 / 2,604.253	- /2.189	- /0.421	150 / 7.653	- / -	150 / 7.653	150 / 7.215	260 / 10.879	280 / 13.051	180 / 10.248	373 / 45.476	4,08 2,701.3
Non-Recurring												
Next Generation Torque System Test Set	0 / 0.000	- / 3.357	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.3
ECP NRE/Incorporation	0 / 0.000	- / -	- / -	- / 0.428	- / -	- / 0.428	- / 0.435	- / -	- / 0.451	- / -	- / -	- / 1.3
Subtotal Non-Recurring	0 / 0.000	- /3.357	- / -	- /0.428	- / -	- /0.428	- /0.435	- / -	- /0.451	- / -	- / -	- /4.6
Total, Engine Improvement	2,694 / 2,604.253	- /5.546	- /0.421	150 / 8.081	- / -	150 / 8.081	150 / 7.650	260 / 10.879	280 / 13.502	180 / 10.248	373 / 45.476	4,08 2,706.0
Transformation Sets, Kits and Outfits		,	•	•		•						

LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

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Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

Date: April 2013

**Modification Nomenclature** 

(Modification Number - Modification

Title):

0000 - CH-47 Cargo Helicopter Mods

Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs:

				FY 2014	FY 2014	FY 2014					То	
	Prior Years	FY 2012	FY 2013	Base	oco	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Financial Plan	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) / Total Cost (\$ M)	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /
A Kits	Total Cost (\$ M )	Total Cost (\$ IVI )	Total Cost (\$ NI)	Total Cost (\$ NI)	Total Cost (\$ NI)	Total Cost (\$ IVI )	Total Cost (\$ W )	Total Cost (\$ IVI )	TOTAL COST (\$ INI )	Total Cost (\$ IVI )	Total Cost (\$ IVI )	Total Cost (\$ IVI
Recurring												
SKOs	29 / 76.900	7 / 9.000	- /1.000	- /2.796	- / -	- /2.796	- / -	- / -	- / -	- / -	- / -	36 / 89.69
Subtotal Recurring	29 / 76.900	7/9.000	- /1.000	1	- / -	- /2.796	- / -	- / -	- / -	- / -	- / -	36 / 89.69
Total, Transformation Sets, Kits and Outfits	29 / 76.900	7/9.000	- /1.000	- /2.796	- / -	- /2.796	- / -	- / -	- / -	- / -	- / -	36 / 89.69
Aircraft Component Parts-Marking										-	-	
A Kits												
Recurring												
Component Markings	0 / 21.000	- / -	- /1.300	- /2.900	- / -	- /2.900	- /1.400	- / 1.500	- /3.200	- /3.200	- / -	- / 34.50
Subtotal Recurring	0/21.000	- / -	- /1.300	1	- / -	- /2.900	- /1.400	- /1.500	- /3.200	- /3.200	- / -	- / 34.50
Total, Aircraft Component Parts-Marking	0 / 21.000	- / -	- /1.300	- /2.900	- / -	- /2.900	- /1.400	- /1.500	- /3.200	- /3.200	- / -	- / 34.50
CH-47 MISC Mods \$5M or Less			I	1		I.	I					J
A Kits												
Recurring												
DSS Algorithm Development	0 / 0.000	- /2.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.50
Voltage Standing Wave Ratio (VSWR)	0 / 0.000	- / -	- / -	- /2.239	- / -	- / 2.239	- / -	- / -	- / -	- / -	- / -	- /2.23
Aircraft Continuity Test Set (ACTS)	0 / 0.000	- / -	- / -	- /4.200	- / -	- /4.200	- / -	- / -	- / -	- / -	- / -	- /4.20
Misc Mods for Millville	0 / 10.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.00
Combining Transmission Fan Drive Shaft	0 / 0.000	- / -	- / -	- / 1.400	- / -	- / 1.400	- / -	- / -	- / -	- / -	- / -	- / 1.40
Swashplate Assembly	0 / 0.000	- /3.600	- / -	- / 0.575	- / -	- / 0.575	- / -	- / -	- / -	- / -	- / -	- /4.17
Hook Load Measuring System	0 / 10.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /4.000	- /3.200	- / 40.600	- / 57.80
Night Vision Goggle Internal Lighting	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.600	- / 1.500	- / 23.001	- / 27.10
Engine Air Particle Separator (EAPS)	0 / 10.000	- / -	- / -	- / 1.948	- / -	- / 1.948	- / 2.487	- / 3.157	- /3.220	- / 0.600	- / -	- / 21.41
Weapon Sys Spec Data Collection	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / 0.400	- / 2.481	- / 3.38
Frangible Fuel Fitting	0 / 10.000	- /4.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.00
PM Support	0 / 10.200	- / 0.505	- / -	- / 0.518	- / -	- / 0.518	- / 0.124	- / 0.158	- / 0.516	- / 0.285	- / 3.304	- / 15.61
Subtotal Recurring	0 / 50.200	- /10.605	- / -	- /10.880	- / -	- /10.880	- /2.611	- /3.315	- /10.836	- /5.985	- /69.386	- /163.81
Total, CH-47 MISC Mods \$5M or Less	0 / 50.200	- /10.605	- / -	- /10.880	- / -	- /10.880	- /2.611	- /3.315	- /10.836	- /5.985	- /69.386	- /163.81
Improved Vibration Control System									,			
A Kits												
Recurring												
Kits	0 / 0.000	- / -	- / -	14 / 2.769	- / -	14 / 2.769	60 / 12.082	50 / 10.250	60 / 12.521	62 / 13.171	304 / 66.695	550 / 117.48

LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

Date: April 2013

**Modification Nomenclature** 

(Modification Number - Modification

Title):

0000 - CH-47 Cargo Helicopter Mods

Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M			
PM Support	0 / 0.000	- / 0.730	- / -	- / 0.139	- / -	- / 0.139	- / 0.605	- / 0.518	- / 0.630	- / 0.664	- / 3.485	- / 6.77
Subtotal Recurring	0 / 0.000	- /0.730	- / -	14 / 2.908	- / -	14/2.908	60 / 12.687	50 / 10.768	60 / 13.151	62 / 13.835	304 / 70.180	550 / 124.25
Non-Recurring		•										
NRE	0 / 0.000	- / 14.593	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.59
Subtotal Non-Recurring	0 / 0.000	- /14.593	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /14.59
Total, Improved Vibration Control System	0/0.000	- /15.323	- / -	14 / 2.908	- / -	14 / 2.908	60 / 12.687	50 / 10.768	60 / 13.151	62 / 13.835	304 / 70.180	550 / 138.85
Engine Filtration System												
A Kits												
Recurring												
B Kit Quantity	103 / 33.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	103 / 33.40
A Kits	337 / 3.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	337 / 3.80
PM Support	0 / 1.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.80
Subtotal Recurring	440 / 39.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	440 / 39.00
Non-Recurring												
Logistics	0 / 3.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 3.10
Subtotal Non-Recurring	0/3.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /3.10
Total, Engine Filtration System	440 / 42.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	440 / 42.10
Maintenance Training Devices (MTD)												
A Kits												
Recurring												
MTD Upgrades	14 / 26.200	7 / 3.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 29.30
Engineering Support	0 / 10.800	- /2.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.50
Logistics	0 / 1.200	- / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.80
Subtotal Recurring	14 / 38.200	7/6.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 44.60
Total, Maintenance Training Devices (MTD)	14 / 38.200	7/6.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	21 / 44.60
Enhanced M24 Window/Door Gun Mount												
A Kits												
Recurring												
Door Gunner Mount B Kits	540 / 14.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	540 / 14.10
M240 Window/Door Gun Mount Mod 1	0 / 0.000	650 / 11.895	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	650 / 11.89
PM Support	0 / 0.200	- / 0.595	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.79

LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

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Exhibit P-3A, Individual Modification: PB 2014 Army

P-1 Line Item Nomenclature:

**Modification Nomenclature** 

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

(Modification Number - Modification

Aircraft / BSA 10: Modification Of Aircraft

Title):

Date: April 2013

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

0000 - CH-47 Cargo Helicopter Mods

Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs:

widdels of Systems Affected. Of 1-47		1.760.	nounicatio	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	J G G			iateu ND i				
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M			
Subtotal Recurring	540 / 14.300	650 / 12.490	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,190 / 26.790
Total, Enhanced M24 Window/Door Gun Mount	540 / 14.300	650 / 12.490	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,190 / 26.790
CH47D to F Conversion												
A Kits												
Recurring												
Recurring Production (Suppl)	28 / 846.655	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 846.65
Recurring Production (Mods)	148 / 2,942.748	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	148 / 2,942.748
Recurring Production (New Build)	6 / 177.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 177.500
Recurring (New Build NG)	4 / 120.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 120.000
Omnibus	1 / 30.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 30.000
Other Flyaway	0 / 392.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 392.500
Other Support	0 / 199.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 199.200
Training	0 / 149.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 149.10
Support Equipment	0 / 21.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /21.30
Subtotal Recurring	187 / 4,879.003	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	187 / 4,879.003
Total, CH47D to F Conversion	187 / 4,879.003	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	187 / 4,879.00
AVCATT												
A Kits												_
Recurring												_
AVCATT Upgrades	17 / 17.685	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 17.68
Engineering Support	0 / 2.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.600
Logistics	0 / 0.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /0.200
Subtotal Recurring	17 / 20.485	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 20.48
Total, AVCATT	17 / 20.485	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 20.485
New Equipment Training (NET)												'
A Kits												_
Recurring												_
NET Operations	0 / 13.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.900
Interim Contractor Support	0 / 23.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 23.000
Subtotal Recurring	0/36.900		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /36.90
Total, New Equipment Training (NET)	0/36.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /36.900
Special Operations Aircraft Commonality	0,00.300		, -	, -			, -	, -	· -	, -		, 00.300

LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

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Page 9 of 31

Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

Date: April 2013

**Modification Nomenclature** 

(Modification Number - Modification

Title):

0000 - CH-47 Cargo Helicopter Mods

Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To	Total
	Qty (Each) /	Qty (Each) /	Qty (Each) /	Base  Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /
Financial Plan		Total Cost (\$ M)	Total Cost (\$ M)		Total Cost (\$ M)		Total Cost (\$ M)		Total Cost (\$ M)			Total Cost (\$ M)
A Kits												
Recurring												
Equipment	1 / 8.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 8.900
Subtotal Recurring	1 / 8.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 8.900
Total, Special Operations Aircraft Commonality	1 / 8.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 8.900
Duplicate of Engine Improvement Program												
A Kits												
Recurring		-										
PM Support	0 / 2,921.770	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4,136.371	- / 7,058.141
Subtotal Recurring	0 / 2,921.770	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4,136.371	- / 7,058.141
Total, Duplicate of Engine Improvement Program	0 / 2,921.770	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4,136.371	- / 7,058.141
Total Procurement, All Modifications	4,088 / 10,800.628	714 / 69.012	104 / 37.207	588 / 142.244	- / -	588 / 142.244	642 / 81.305	1,062 / 136.692	1,330 / 272.600	1,127 / 400.519	4,339 / 6,606.448	13,994 / 18,546.655
Total Procurement and Support	10,800.628	69.012	37.207	142.244	-	142.244	81.305	136.692	272.600	400.519	6,606.448	18,546.655
Cargo On/Off Loading System (COOLS) and COOLS BPS Installation Cost	0 / 6.400	- / -	26 / 1.928	52 / 3.892	- / -	52 / 3.892	72 / 5.486	72 / 5.585	72 / 5.685	56 / 4.501	23 / 1.882	373 / 35.359
Advanced Chinook Rotor Blade Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Airframe Optimization and Payload Buyback Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Crash Resistant Troop Seats Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	70 / 0.411	210 / 1.257	210 / 1.279	69 / 0.428	- / -	559 / 3.375
Crashworthy Pilot Seats Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	120 / 0.376	100 / 0.319	100 / 0.325	240 / 0.794	790 / 2.716	1,350 / 4.530
Cargo Platform Health Environment Installation Cost	0 / 0.000	- / -	- / -	120 / 3.628	- / -	120 / 3.628	77 / 2.371	27 / 0.846	14 / 0.447	17 / 0.552	14 / 0.463	269 / 8.307
Adjustable Pitch Change Link Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Engine Improvement Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Transformation Sets, Kits and Outfits Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Aircraft Component Parts-Marking Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
CH-47 MISC Mods \$5M or Less Installation Cost	35 / 3.300	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / 3.300
Improved Vibration Control System Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	14 / 0.026	60 / 0.112	50 / 0.095	60 / 0.116	366 / 0.711	550 / 1.060
Engine Filtration System Installation Cost	337 / 1.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	337 / 1.700
Maintenance Training Devices (MTD) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

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Exhibit P-3A, Individual Modification: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

**P-1 Line Item Nomenclature:**AA0252 - CH-47 Cargo Helicopter Mods (MYP)

Modification Nomenclature

2031A: Aircraft Procurement, Army / BA 02: Modification of

(Modification Number - Modification

Aircraft / BSA 10: Modification Of Aircraft

Title):

0000 - CH-47 Cargo Helicopter Mods

Models of Systems Affected: CH-47

Type Modification: Unclassified

Related RDT&E PEs:

		·		FY 2014	FY 2014	FY 2014					То	
	Prior Years	FY 2012	FY 2013	Base	осо	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)				
Enhanced M24 Window/Door Gun Mount Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
CH47D to F Conversion Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
AVCATT Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
New Equipment Training (NET) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Special Operations Aircraft Commonality Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Duplicate of Engine Improvement Program Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total Installation Cost	372 / 11.400	- / -	26 / 1.928	172 / 7.520	- / -	172 / 7.520	353 / 8.670	469 / 8.119	446 / 7.831	442 / 6.391	1,193 / 5.772	3,473 / 57.631
Total Cost (Procurement + Support + Installation)	10,812.028	69.012	39.135	149.764	-	149.764	89.975	144.811	280.431	406.910	6,612.220	18,604.286

Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft

AA0252 - CH-47 Cargo Helicopter Mods (MYP)

Modification Number - Modification Number

Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs:

Manufacturer Information: Cargo On/Off Loading System (COOLS) and COOLS BPS

Manufacturer Name: Boe	eing			Manufacturer Location: Ri	dley Park, PA		
Administrative Leadtime	(in Months): 5			Production Leadtime (in N	Nonths): 7		
Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		May 2013	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017
Delivery Dates		Dec 2013	Jul 2014	Jul 2015	Jul 2016	Jul 2017	Jul 2018

Installation: Cargo On/Off Loading System (COOLS) and COOLS BPS Method of Implementation: Various Installation Name: FY 2014 FY 2014 FY 2014 To FY 2012 FY 2013 Base oco Total FY 2015 FY 2016 FY 2017 FY 2018 Complete **Prior Years** Total Qty (Each) / Installation Cost Total Cost (\$ M) All Prior Years 0 / 3.200 0 / 0.000 0 / 0.000 0 / 0.000 0 / 0.000 0 / 0.000 0 / 0.000 0 / 0.000 0 / 0.000 0 / 0.000 0 / 3.200 - / -FY 2012 0 / 3.200 - / -26 / 1.928 - / -- / -- / -- / -- / -- / -- / -- / -26 / 5.128 FY 2013 0 / 0.000 - / -- / -52 / 3.892 - / -52 / 3.892 - / -- / -- / -- / -- / -52 / 3.892 0 / 0.000 FY 2014 - / -- / -- / -- / -- / -72 / 5.486 - / -- / -- / -- / -72 / 5.486 FY 2015 0 / 0.000 - / -- / -- / -72 / 5.585 - / -- / -- / -72 / 5.585 - / -- / -- / -- / -- / -- / -FY 2016 0 / 0.000 - / -- / -- / -- / -72 / 5.685 - / -- / -72 / 5.685 FY 2017 0 / 0.000 - / -- / -- / -- / -- / -- / -56 / 4.501 - / -56 / 4.501 - / -- / -FY 2018 0 / 0.000 - / -- / -- / -- / -- / -- / -- / -- / -23 / 1.882 23 / 1.882 To Complete 0 / 0.000 - / -- / -- / -- / -- / -- / -- / -- / -- / -- / -- / -0 / 6.400 - / -Total 26 / 1.928 52 / 3.892 - / -52 / 3.892 72 / 5.486 72 / 5.585 72 / 5.685 56 / 4.501 23 / 1.882 373 / 35.359

#### Installation Schedule

			FY 2	2012			FY 2	2013			FY 2	014			FY 2	015			FY 2	016			FY 2	017			FY 2	018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	-	-	-	-	-	-	10	10	6	13	13	13	13	18	18	18	18	18	18	18	18	18	18	18	18	14	14	14	14	23	373
Out	-	-	-	-	-	-	10	10	6	13	13	13	13	18	18	18	18	18	18	18	18	18	18	18	18	14	14	14	14	23	373

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Exhi	bit P-	3A, I	ndivi	dual	Modi	ficatio	on: Pl	B 20	14 Arn	ny												Date	: Apr	il 201	3				
2031	A: Air	rcraft	Proc	ureme	ent, A	rmy /	BA 02								-	ter Mo	ds (ľ	MYP)				(Mod Title)	lificat :	tion N	lumb	er - M	odific		S
Mod	els of	f Sys	tems	Affe	cted:	CH-4	.7				Type Mod	dification:	Unclassi	fied					Rel	lated F	RDT	&E PI	Es:						
Manu	facture	er Info	rmatic	n: Adv	/anced	Chino	ook Ro	tor B	lade																				
Manu	acturer	r Name	e: Boei	ing									Ŋ	Manuf	acture	r Locatio	on: Ri	dley Park	k, PA										
Admir	istrative	e Lead	dtime (	in Mon	ths): 4								F	Produc	ction L	.eadtime	(in M	lonths): 6	3										
	Dat	tes			FY 2	2012			FY 2	2013		FY 2014			FY 2	2015			FY 2	2016			FY	2017			FY	2018	
Contra	act Date	es																	Dec 2	2015			Dec	2016			Dec	2017	
Delive	ry Date																Jun 2	2016			Jun	2017			Jun	2018			
																			1										
Instal	lation:	Advar	nced C	hinook	Rotor	Blade					Method of I	<u> </u>							Inst	allation	Nam	e:							
						Pri	ior Yea	ırs	FY 201	12	FY 2013	FY 2014 Base	1	-			FY	2015	F	Y 2016	F	Y 201	7	FY 20	18			To	tal
Instal	lation C	Cost				Q	ty (Each)	1/	Qty (Each	n) /	Qty (Each) /	Base  Qty (Each) /	Qty (Ea	O ich) /	<b>T</b> o	otal (Each) /	Qty	(Each) /	Qty	y (Each) /	Q	ty (Each)	1/	Qty (Eac	ch) /	Com Qty (E	plete ach) /	Qty (E	Each) /
		Cost				Q	ty (Each) al Cost (\$	/ M) To	Qty (Each	n) / \$ <i>M</i> )	Qty (Each) / Total Cost (\$ M	Base  Oty (Each) / Total Cost (\$ M	Qty (Ea	O nch) / t (\$ M )	<b>T</b> o	otal (Each) /	Qty	(Each) /	Qty Total	y (Each) / Cost (\$ M	Q: ) Tota	ty (Each) I Cost (\$	M) Te	Qty (Eac	ch) /	Qty (E Total Co	plete ach) / st (\$ M)	Qty (E Total Co	Each) / est (\$ M )
All Prior	Years	Cost				Q	ty (Each) al Cost (\$ 0 / 0.	M) To	Qty (Each otal Cost (\$	n) / \$ <i>M</i> )	Qty (Each) / Total Cost (\$ M	Base  Oty (Each) / Total Cost (\$ M	Qty (Ea Total Cost	Onch) / t (\$ M ) / -	Qty (	otal (Each) / Cost (\$ M)	Qty	(Each) / Cost (\$ M)	Qty Total	y (Each) / Cost (\$ M	Q: ) Tota	ty (Each) // Cost (\$ 0 / 0	M) To	Qty (Eac otal Cost	ch) / · (\$ M ) / 0.000	Qty (E Total Co	plete ach) / st (\$ M) 0 / 0.000	Qty (E Total Co	Each) / est (\$ M ) 0 / 0.000
All Prior FY 2012 FY 2013	Years	Cost				Q	0 / 0. 0 / 0.	000 000	Qty (Each otal Cost (\$ 0 / 0 - /	n) / \$ <i>M</i> ) 0.000	Qty (Each) / Total Cost (\$ M 0 / 0.00	Base   Qty (Each) / Total Cost (\$ M   0   0 / 0.00   - / -   - / -	OCCO Oty (Ea Total Cost OCCO OCCO OCCO OCCO OCCO OCCO OCCO OC	O sich) / t (\$ M) / - / - / -	Qty (	otal (Each) / cost (\$ M) 0 / 0.000 - / -	Qty	(Each) / Cost (\$ M ) 0 / 0.000 - / -	Qty Total	y (Each) / Cost (\$ M) 0 / 0.00	Q: ) Tota	ty (Each) // Cost (\$ 0 / 0 - /	.000 -	Qty (Eac otal Cost 0 / -	ch) / (\$ M ) / 0.000 / - / -	Qty (E Total Co	ach) / st (\$ M) 0 / 0.000 / - / -	Qty (E Total Cos	Each) / ost (\$ M) 0 / 0.000 / -
All Prior FY 2012 FY 2013	Years	Cost				Q	0 / 0. 0 / 0. 0 / 0. 0 / 0.	000 .000 .000	Qty (Each otal Cost (\$ 0 / 0 - / - /	0.000 	Oty (Each) / Total Cost (\$ M 0 / 0.00 - / / / - / -	Base   Qty (Each) / Total Cost (\$ M   0   0 / 0.00   - / / / / -	OCCO Otty (Ea Total Cost OCCO OCCO OCCO OCCO OCCO OCCO OCCO OC	O (ch) / t (\$ M) ( - ( - ( - ( - ( - ( - ( - ( - ( - (	Qty (	(Each) / cost (\$ M) 0 / 0.000 - / / / -	Qty	(Each) / Cost (\$ M) 0 / 0.000 - / - - / -	Qty Total	y (Each) / Cost (\$ M 0 / 0.000	Q: ) Tota	ty (Each) // Cost (\$ 0 / 0 - / - /	0 / M ) To	Qty (Eac otal Cost 0 / - -	ch) / f (\$ M ) / 0.000 / - / -	Qty (E Total Co	ach) / st (\$ M ) 0 / 0.000 / - / - / -	Qty (E Total Coo	Each) / est (\$ M) 0 / 0.000 / - / - / -
All Prior FY 2012 FY 2014 FY 2015	Years	Cost				Q	Oty (Each)  O / 0.	000 .000 .000 .000 .000	Qty (Each fotal Cost (\$ 0 / 0 - / - / - /	D.000	Qty (Each) / Total Cost (\$ M 0 / 0.00 - / / / / / -	Base   Qty (Each) / Total Cost (\$ M   0   0   0   0   0   0   0   0   0	OCU Oty (Ea Total Cost Oty	O sch) / t (\$ M) / - / - / - / - / - / - / -	Qty (	(Each) / (cost (\$ M)) 0 / 0.000 - / / / / -	Qty	(Each) / Cost (\$ M) 0 / 0.000 - / / / -	Qty Total	y (Each) / Cost (\$ M 0 / 0.00 - / - - / - - / -	Q: ) Tota	ty (Each) // Cost (\$ 0 / 0 - / - / - / - /	.000 - - -	Qty (Eac otal Cost 0 / - -	ch) / (\$ M ) / 0.000 / - / - / - / -	Qty (E Total Co	plete ach) / st (\$ M) 0 / 0.000 / - / - / - / -	Qty (E Total Coo	Each) / sst (\$ M) 0 / 0.000 / - / - / - / - / -
All Prior FY 2012 FY 2013 FY 2014 FY 2016	Years	Cost				Q	Oty (Each)  al Cost (\$ 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0.	.000 .000 .000 .000 .000 .000 .000 .00	Oty (Each Total Cost (\$\frac{1}{2} - \frac{1}{2} - 1	D.000	Oty (Each) / Total Cost (\$ M	Base   Qty (Each) / Total Cost (\$ M   0   0   0   0   0   0   0   0   0	OCC Oty (Ea Total Cost	O sch) / t (\$ M) / - / - / - / - / - / - / - / - / - /	To Qty (	(Each) / cost (\$ M ) 0 / 0.000 - / - / - / - / - / / / / / / / / / / /	Qty	(Each) / Cost (\$ M) 0 / 0.000 - / / / / / -	Qty Total	y (Each) / Cost (\$ M 0 / 0.00 - / - - / - - / - - / -	Q: ) Tota	ty (Each) // Cost (\$ 0 / 0 - / - / - / - /	.000	Qty (Eac otal Cost 0 / - - -	ch) / (\$ M) / (0.000 / - / - / - / - / - / - / - / - / -	Qty (E Total Co	plete ach) / st (\$ M) 0 / 0.000 / - / - / - / - / -	Qty (E Total Co:	Each) / st (\$ M) 0 / 0.000  / - / - / - / - / -
All Prior FY 2012 FY 2013 FY 2014 FY 2015 FY 2016	Years	Cost				Q	0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0.	000 000 000 000 000 000 000 000 000 00	Qty (Each fotal Cost (\$ 0 / 0 - / - / - / - / - /	n) / \$ M ) D.000	Qty (Each) / Total Cost (\$ M 0 / 0.00 - / / / / / -	Base   Qty (Each) / Total Cost (\$ M   0   0   0   0   0   0   0   0   0	OC(	Ouch) / t (\$ M) / - / - / - / - / - / - / - / - / - /	Qty (	(Each) / (cost (\$ M)) 0 / 0.000 - / / / / -	Qty	(Each) / Cost (\$ M) 0 / 0.000 - / / / -	Qty Total	y (Each) / Cost (\$ M 0 / 0.00 - / - - / - - / -	Q: ) Tota	ty (Each) // Cost (\$ 0 / 0 - / - / - / - / - / - /	0000	Qty (Eac Total Cost 0 / - - - -	ch) / (\$ M) / 0.000 / - / - / - / - / - / - / - / - / -	Com  Oty (E Total Co	plete ach) / st (\$ M) 0 / 0.000 / - / - / - / - / -	Qty (E Total Co.	Each) / sst (\$ M) 0 / 0.000 / - / - / - / - / - / - / -
All Prior FY 2012 FY 2014 FY 2015 FY 2016 FY 2016 FY 2017	Years 2 3 4 5 7 8	Cost				Q	aty (Each) al Cost (\$ 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0.	000 000 000 000 000 000 000 000 000 00	Oty (Each otal Cost (\$	n) / \$ M ) 0.000 ' - ' - ' - ' -	Oty (Each) / Total Cost (\$ M	Base   Qty (Each) / Total Cost (\$ M   0   0 / 0.00   - / -     - / -   - / -   - / -   - / -   - / -   - / -     - / -   - / -   - / -     - / -   - / -     - / -   - / -     - / -   - / -   - / -     - / -   - / -       - / -     - / -       - / -       - / -       - / -       - / -       - / -       - / -       - / -       - / -       - / -       - / -       - / -       - / -       - / -	OC(	Ouch) / t (\$ M) / - / - / - / - / - / - / - / - / - /	Qty (	(Each) / (Sost (\$ M)) 0 / 0.000 - / / / / / / -	Qty	(Each) / Cost (\$ M) 0 / 0.000 - / / / / / / / -	Qty Total	y (Each) / 'Cost (\$ M	Q: ) Tota	ty (Each) // Cost (\$ 0 / 0 - / - / - / - / - / - / - /		Qty (Eacrotal Cost  0 /	ch) / (\$ M) / 0.000 / - / - / - / - / - / - / - / - / -	Com  Qty (E Total Co	plete ach) / st (\$ M) 0 / 0.000 / - / - / - / - / - / - / -	Qty (E Total Co.  (	Each) / st (\$ M ) 0 / 0.000  / - / - / - / - / - / - / -
All Prior FY 2012 FY 2014 FY 2015 FY 2016 FY 2016 FY 2017	Years 2 3 4 5 7 8	Cost				Q	aty (Each) al Cost (\$ 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0.	000 000 000 000 000 000 000 000 000 00	Otty (Each otal Cost (\$	n) / \$ M ) 0.000	Oty (Each) / Total Cost (\$ M	Base   Qty (Each) / Total Cost (\$ M   0   0 / 0.00	OC(	O sich) / t (\$ M )  / - / - / - / - / - / - / - / - / - /	Cty (Total C	Otal (Each) / Cost (\$ M) 0 / 0.000 - / / / / / / / / / / -	Qty	(Each) / Cost (\$ M) 0 / 0.000 - / / / / / / / / -	Qty Total	y (Each) / Cost (\$ M	Q: ) Tota	ty (Each) // Cost (\$ 0 / 0 - / - / - / - / - / - / - / - / - / - /		Qty (Eacrotal Cost	ch) / (\$ M) / 0.000 / - / - / - / - / - / - / - / - / -	Com  Qty (E Total Co	plete ach) / st (\$ M) 0 / 0.000 / - / - / - / - / - / - / - / - / - / -	Qty (E Total Co.  (	Each) / sst (\$ M ) 0 / 0.000 / - / - / - / - / - / - / - / - / -
All Prior FY 2012 FY 2012 FY 2014 FY 2016 FY 2016 FY 2016 TO Com Total	Anstallation Cost         City (Each) / Total Cost (\$ M)         Oty (Each) /																												
All Prior FY 2012 FY 2012 FY 2014 FY 2016 FY 2016 FY 2016 TO Com Total	Years 2 3 4 5 6 7 3 pplete			2012		Q	aty (Each) al Cost (\$ 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0.	M) 70 000 000 000 000 000 000 000 000 000	Otty (Each otal Cost (\$	n) / \$ M ) 0.000	Oty (Each) / Total Cost (\$ M	Base  Oty (Each) / Total Cost (\$ M  0	OC(	O sich) / t (\$ M ) / - / - / - / - / - / - / - / - / - / -	Cty (Total C	otal (Each) / cost (\$ M ) 0 / 0.000 - / / / / / / / / / / / / / / / / -	Qty	(Each) / Cost (\$ M ) 0 / 0.000 - / / / / / / / / / / -	Qty Total	y (Each) / Cost (8 M) 0 / 0.000 - / / / / / / / / / / -	Q: ) Tota	/ - / - / - / - / - / - / - / - / -		Qty (Eacrotal Cost	ch) / (\$ M) / 0.000 / - / - / - / - / - / - / - / - / -	Com  Qty (E Total Co	plete ach) / st (\$ M) 0 / 0.000 / - / - / - / - / - / - / - / - / - / -	Qty (E Total Co.  (	Each) / sst (\$ M ) 0 / 0.000 / - / - / - / - / - / - / - / - / -
All Prior FY 2012 FY 2012 FY 2014 FY 2016 FY 2016 FY 2016 TO Com Total	Years 2 3 4 5 6 7 3 pplete			2012	4	Q	ty (Each) al Cost (\$ 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0. 0 / 0.	M) 70 000 000 000 000 000 000 000 000 000	Otty (Each otal Cost (\$	n) / \$ M ) 0.000	Qty (Each) / Total Cost (\$ M	Base  Oty (Each) / Total Cost (\$ M 0	OC(	O sich) / t (\$ M ) / - / - / - / - / - / - / - / - / - / -	Cty (Total C	otal (Each) / cost (\$ M ) 0 / 0.000 - / / / / / / / / / / / / / / / / -	Qty Total (	(Each) / Cost (\$ M ) 0 / 0.000 - / / / / / / / / / / -	Qty Total	y (Each) / Cost (8 M) 0 / 0.000 - / / / / / / / / / / -	Q: Total	/ - / - / - / - / - / - / - / - / -		Qty (Eacrotal Cost	ch) / (\$ M) / 0.000 / - / - / - / - / - / - / - / - / -	Com	plete ach) / st (\$ M) 0 / 0.000 / - / - / - / - / - / - / - / - / - / -	Qty (E Total Co.  (	Each) / sst (\$ M ) 0 / 0.000 / - / - / - / - / - / - / - / - / -
All Prior FY 2012 FY 2012 FY 2014 FY 2016 FY 2016 FY 2016 TO Com Total	Years 2 3 4 5 5 7 8 plete	Sched	FY		4	Q	hty (Each) al Cost (\$ 0/0. 0/0. 0/0. 0/0. 0/0. 0/0. 0/0. 0/0	/ M) 76 .000 .000 .000 .000 .000 .000 .000 .0	Oty (Each otal Cost ()  - / (  - ) (  - (  - / (  - ) (  - (  - (  - (  - (  - (  - (	n) / \$ M ) 0.000 ' - ' - ' - ' - ' - ' - ' - ' - ' - ' -	Qty (Each) / Total Cost (\$ M	Base  Oty (Each) / Total Cost (\$ M  0	OCC   Oty (Ea   Total Cost	O sch) / t (\$ M)	To Oty (Total Co	Otal (Each) / Oost (\$ M ) 0 / 0.000 -	Qty Total (	(Each) / Cost (\$ M ) 0 / 0.000 - / / / / / / / / / / / -	Qty Total	y (Each) / Cost (8 M	Total	ty (Each) // Cost (\$\\$ 0 / 0 - / - / - / - / - / - / - / - / - / - /		Qty (Eac otal Cost 0 / - - - - - -	ch) / (\$ M) / 0.000 / - / - / - / - / - / - / - / - / -	Com	plete ach) / st (\$ M) 0 / 0.000 / - / - / - / - / - / - / - / - / - / -	Qty (E Total Co.	Each) / sst (\$ M ) 0 / 0.000

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LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

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Exhibit	P-:	3 <b>A</b> I	ndivi	dual	Mod	ificati	on. b	PR 2	014 Ar	mv														Date: A	pril 201	3		—		
Approp 2031A: Aircraft	<b>oria</b> Air	tion craft	/ Bud	dget urem	Activ	ity / E	Budge BA 0	et S	ub Act	ivity			<b>Line</b>   0252 -					oter Mo	ods (	(MYP)			(	Modific (Modific Title):	ation Nation N	lom lumb	enclatui per - Mod o Helico	difica		 s
Models	of	Sys	tems	Affe	cted	CH-4	17				Туре	Mod	ificatio	on: U	nclass	sified					Re	lated R	DT&	E PEs:						
Manufac	ture	r Info	rmatio	n: Air	frame	Optim	ization	n and	d Payloa	d Bu	yback																			
Manufact	turer	Nam	e: TBD	)												Manuf	acture	er Locati	on: T	BD										
Administr	rative	e Lea	dtime (	in Mor	nths): 6	;										Produ	ction L	_eadtime	e (in N	Months):										
	Dat	tes			FY	2012			FY	2013			FY	2014			FY	2015			FY	2016		F	Y 2017			FY:	2018	
Contract	Date	es											Jan	2014																
Delivery I	Date	es																												
Installati	on:	Аіпта	me Op	timiza	uon an	<u> </u>	<u> </u>						rplemei FY 2		FY 2	2014	FY	2014			ins	tallation l					То	$\overline{}$		
						D.	rior Ye	are	FY 20	12	FY 2	013	FY 2		FY 2			2014 otal	E	Y 2015		Y 2016	E.	Y 2017	FY 20	12	Comple	to	To	tal
Installati	on C	Cost					Qty (Each	n) /	Qty (Eac	ch) /	Qty (E	ach) /	Qty (E	ach) /	Qty (E		Qty	(Each) /	Qt	y (Each) / / Cost (\$ M	Q	ty (Each) /	Qty	y (Each) / Cost (\$ M )	Qty (Eac	ch) /	Qty (Each	1) /	Qty (E	Each) /
All Prior Yea	ars						0/0	0.000	0 /	0.000		0.000	(	0 / 0.000	-	/ -		0 / 0.000	)	0 / 0.00	0	0 / 0.000	)	0 / 0.000	0 /	0.000	0/0	0.000	- (	0 / 0.0
FY 2012							0/0	0.000	-	/ -	-	/ -	-	/ -	-	/ -		- / -		- / -		- / -		- / -	-	/ -	- /	-	-	- / -
FY 2013								0.000		/ -	-	/ -	-	1 -	-	1 -		- / -		- / -		- / -		- / -		/ -	- /			- / -
FY 2014								0.000		/ -		/ -		/ -		/ -		- / -		- / -		- / -		- / -		/ -	- /			- / -
FY 2015								0.000		/ -		/ -	+	/ -		/ -		- / -		- / -	-	- / -	-	- / -		/ -	- /	_		- / -
FY 2016 FY 2017								0.000		/ -	-	/ -		/ -	-	/ -		- / -		- / -		- / -		- / -		/ -	- /	_		- / -
FY 2018								0.000		/ -		/ -		/ -	-	/ -		- / -		- / -	+	- / -		- / -	-	/ -	- /	_		. / -
To Complete	е							0.000		/ -		/ -		/ -		/ -		- / -		- / -		- / -		- / -		/ -	- /	_		. / .
Total							0/0	0.000	-	/ -	-	/ -	-	/ -	-	/ -		- / -		- / -		- / -		- / -	-	/ -	- /	-		- / -
Installati	on S	Sched	lule																	-									-	
			FY	2012			FY	201	3		FY	2014			FY 2	2015			FY	2016			FY 20	)17		F١	<b>/ 2018</b>			
AI	PY	1	2	3	4	1	2	3	3 4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3 4	1	2	3	4	тс	То
In -	-	-	-	-	-	-	-	-	.   -	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
Out -	-	_	-	-	1 -	T -	-	Τ.	.   _	1 -	-	T -	-	-	-	-	-	-	-	-	_	-	-		-	-	-	_	-	_

LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

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Full 15 to D. O.A. Loud's Educal Mandall Confession DD 0044 Annual		Data: Arril 2042
Exhibit P-3A, Individual Modification: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification Aircraft / BSA 10: Modification Of Aircraft		Modification Nomenclature (Modification Number - Modification Title): 0000 - CH-47 Cargo Helicopter Mods
Models of Systems Affected: CH-47	Type Modification: Unclassified	Related RDT&E PEs:

pe Modification. Offciass	silieu	Related RDT	CL FLS.	
	Manufacturer Location: Richard	dley Park, PA		
	Production Leadtime (in M	fonths): 2		
FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
	Jan 2015	Dec 2015	Dec 2016	Oct 2017
	Mar 2015	Feb 2016	Feb 2017	Dec 2017
	•	Production Leadtime (in N FY 2014 FY 2015 Jan 2015	Manufacturer Location: Ridley Park, PA Production Leadtime (in Months): 2  FY 2014 FY 2015 FY 2016 Jan 2015 Dec 2015	Manufacturer Location: Ridley Park, PA  Production Leadtime (in Months): 2  FY 2014 FY 2015 FY 2016 FY 2017  Jan 2015 Dec 2016

Installation: Crash Resistant Troop Se	eats		Method of Im	plementation	ı: Various			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )						
All Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000
FY 2012	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	70 / 0.411	- / -	- / -	- / -	- / -	70 / 0.411
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	210 / 1.257	- / -	- / -	- / -	210 / 1.257
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	210 / 1.279	- / -	- / -	210 / 1.279
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	69 / 0.428	- / -	69 / 0.428
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	70 / 0.411	210 / 1.257	210 / 1.279	69 / 0.428	- / -	559 / 3.375

#### Installation Schedule

		0000	u																												
			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	016			FY 2	017			FY 2	018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	40	50	50	55	55	50	50	55	55	40	29	-	-	-	559
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	40	50	50	55	55	50	50	55	55	40	29	-	-	-	559

**UNCLASSIFIED** 

Exhibit P-3A, Individual Modification: PB 2014 ArmyDate: April 2013Appropriation / Budget Activity / Budget Sub Activity:<br/>2031A: Aircraft Procurement, Army / BA 02: Modification of<br/>Aircraft / BSA 10: Modification Of AircraftP-1 Line Item Nomenclature:<br/>AA0252 - CH-47 Cargo Helicopter Mods (MYP)Modification Nomenclature<br/>(Modification Number - Modification<br/>Title):<br/>0000 - CH-47 Cargo Helicopter Mods

Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs:

Manufacturer Information: Crashworthy Pilot Seats

Manufacturer Information	on: Crashworthy Pilot Sea	ts					
Manufacturer Name: TBD	)			Manufacturer Location: TE	BD		
Administrative Leadtime	(in Months): 6			Production Leadtime (in N	fonths): 10		
Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates			Apr 2014	Apr 2015	Apr 2016	Apr 2017	Apr 2018
Delivery Dates			Feb 2015	Feb 2016	Feb 2017	Feb 2018	Feb 2019

Installation: Crashworthy Pilot Seats			Method of Im	plementation	ı: Various			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)			
All Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000
FY 2012	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	120 / 0.376	- / -	- / -	- / -	- / -	120 / 0.376
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	100 / 0.319	- / -	- / -	- / -	100 / 0.319
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	100 / 0.325	- / -	- / -	100 / 0.325
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	240 / 0.794	- / -	240 / 0.794
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	240 / 0.808	240 / 0.808
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	550 / 1.908	550 / 1.908
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	120 / 0.376	100 / 0.319	100 / 0.325	240 / 0.794	790 / 2.716	1,350 / 4.530

#### Installation Schedule

			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	015			FY 2	016			FY 2	017			FY 20	018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	-	-	-	-	-	-	-	-	-	-	-	-	-	30	30	30	30	25	25	25	25	25	25	25	25	60	60	60	60	790	1,350
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	30	30	30	30	25	25	25	25	25	25	25	25	60	60	60	60	790	1,350

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Exhibit P-3A, Individual Modification: PB 2014 Army

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

P-1 Line Item Nomenclature:
AA0252 - CH-47 Cargo Helicopter Mods (MYP)

(Modification Number - Modification Title):
0000 - CH-47 Cargo Helicopter Mods

Models of Systems Affected: CH-47 Type Modification: Unclassified Related RDT&E PEs:

Manufacturer Information: Cargo Platform Health Environment

	. 3						
Manufacturer Name: Boe	ing			Manufacturer Location: Ri	dley Park, PA		
Administrative Leadtime (	in Months): 3			Production Leadtime (in N	fonths): 6		
Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates		Jan 2013	Nov 2013	Nov 2014	Nov 2015	Nov 2016	
Delivery Dates		Jul 2013	May 2014	May 2015	May 2016	May 2017	

Installation: Cargo Platform H	Health Environment		Method of Im	nplementation	: Various			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
All Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000
FY 2012	0 / 0.000	- / -	- / -	14 / 0.423	- / -	14 / 0.423	- / -	- / -	- / -	- / -	- / -	14 / 0.423
FY 2013	0 / 0.000	- / -	- / -	38 / 1.149	- / -	38 / 1.149	- / -	- / -	- / -	- / -	- / -	38 / 1.149
FY 2014	0 / 0.000	- / -	- / -	68 / 2.056	- / -	68 / 2.056	57 / 1.755	- / -	- / -	- / -	- / -	125 / 3.811
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	20 / 0.616	- / -	- / -	- / -	- / -	20 / 0.616
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	27 / 0.846	- / -	- / -	- / -	27 / 0.846
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.447	- / -	- / -	14 / 0.447
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 0.552	- / -	17 / 0.552
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 0.463	14 / 0.463
Total	0 / 0.000	- / -	- / -	120 / 3.628	- / -	120 / 3.628	77 / 2.371	27 / 0.846	14 / 0.447	17 / 0.552	14 / 0.463	269 / 8.307

#### Installation Schedule

			FY 2	2012			FY	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	-	-	-	-	-	-	-	-	-	30	30	30	30	19	19	19	20	6	7	7	7	-	5	6	6	-	-	-	-	-	241
Out	-	-	-	-	-	-	-	-	-	30	30	30	30	19	19	19	20	6	7	7	7	-	5	6	6	-	-	-	-	-	241

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Exh	bit P-	-3A, I	ndivi	dual	Modifi	catio	n: PE	3 201	14 Arm	ıy													Date	: Ap	ril 20	13				
203	A: Air	rcraft	Proc	ureme		ny / E	BA 02		Activodificati				<b>Line Ite</b> 252 - C	_			oter Mo	ods (N	MYP)			9	(Mod Title)	difica ):		Numb	er - N	ture Modific		<b>.</b>
Mod	els of	f Sys	tems	Affe	cted: (	H-47	7			1	Type N	/lodif	ication	ı: Uncla	assified	l				Re	elated R									
Manu	facture	er Info	rmatio	n: Adj	ustable	Pitch	Chang	ge Lin	ık																					
Manu	facturer	r Name	e: Boei	ng											Manu	ufacture	er Location	on: Ric	dley Par	k, P	4									
Admi	nistrativ	e Lead	dtime (	in Mon	ths): 6										Prod	uction I	Leadtime	(in M	1onths):	4										
	Dat	tes			FY 20	12			FY 20	013			FY 20	14		FY	2015			FY	2016			FY	2017			FY	2018	
Contr	act Date	es											Mar 20	014		Jan	2015			Jan	2016			Jar	า 2017			Jan	2018	
Deliv	ery Date	es											Jul 20	)14		May	2015			May	2016			Ma	y 2017			May	2018	
		04				Qty	or Yea y (Each)	/ (	<b>FY 2012</b> Qty (Each)	) /	FY 20	ch) /	Base Qty (Each		oco		Total (Each) /		<b>2015</b> (Each) /	_	FY 2016 Oty (Each) /		<b>Y 201</b> y (Each	1) /	FY 20 Qty (Ea		Qty (	plete Each) /	Tot	
All Prio	lation (	Cost				Total	Cost (\$	M) Tot	tal Cost (\$																					
FY 201								200	0./0.		Total Cost	- /	Total Cost (	(\$ M ) Tota	l Cost (\$ M		Cost (\$ M)	Total (	Cost (\$ M)	Tota	al Cost (\$ M)	Total	Cost (\$	_	Total Cos	st (\$ M )	Total C	ost (\$ M )	Total Cos	st (\$ M )
FY 201								000	0 / 0.	.000	0 /	0.000	Total Cost (	(\$ M ) Tota 0.000	l Cost (\$ M		Ost (\$ M)	Total (	0 / 0.000	Tota	0 / 0.000	Total	0/0	0.000	Total Cos 0	st (\$ M ) ) / 0.000		0 / 0.000	C	st (\$ M) 0 / 0.000
FY 201							0 / 0.0	000	0 / 0.0	.000	0 /	- /	Total Cost (	(\$ M ) Tota 0.000 / -	l Cost (\$ M		Cost (\$ M)	Total (	Cost (\$ M)	Tota	al Cost (\$ M)	Total		0.000	Total Cos 0	st (\$ M )			- -	st (\$ M )
	4						0 / 0.0	000	- /	.000	0 / - -	0.000	Total Cost (	(\$ M ) Tota 0.000 / - / -	l Cost (\$ M - / - - / -		0 / 0.000 - / -	Total (	Ost (\$ M)	Tota	0 / 0.000 - / -	Total	0/0	0.000 - -	Total Cos 0 -	st (\$ M ) ) / 0.000 / -		0 / 0.000	- -	st (\$ M) 0 / 0.000 / -
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Appropriation 2031A: Aircraft Aircraft / BSA  Models of Sys Manufacturer Infi Manufacturer Nan Administrative Lea Dates Contract Dates Delivery Dates  Installation: Aircr  Installation Cost All Prior Years FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 To Complete Total Installation Sche	Syste Information Leadtings	Procu D: Mo ems matio : TBD	difica	nt, Aition C	my / Of Air	BA 0 craft						_	Item	Nome	enclat	ure:							Modific	ation	Nom	encla	ature		
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LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

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Exhi	bit P-	-3A, I	Indivi	idual	Modi	ficati	on: PE	3 20	14 Army										Date: A	pril 2013		
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LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

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Exhibit P-3A, Individual Modification: PB 2014 ArmyDate: April 2013Appropriation / Budget Activity / Budget Sub Activity:<br/>2031A: Aircraft Procurement, Army / BA 02: Modification of<br/>Aircraft / BSA 10: Modification Of AircraftP-1 Line Item Nomenclature:<br/>AA0252 - CH-47 Cargo Helicopter Mods (MYP)Modification Nomenclature<br/>(Modification Number - Modification<br/>Title):<br/>0000 - CH-47 Cargo Helicopter Mods

 Models of Systems Affected: CH-47
 Type Modification: Unclassified
 Related RDT&E PES:

 Manufacturer Information: Improved Vibration Control System

 Manufacturer Name: TBD

 Administrative Leadtime (in Months): 6

 Production Leadtime (in Months): 12

 Dates
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 FY 2014
 FY 2015
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 FY 2018

	Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018		
Con	tract Dates			Mar 2014	Mar 2015	Mar 2016	Mar 2017	Mar 2018		
Deli	very Dates			Mar 2015	Mar 2016	Mar 2017	Mar 2018	Mar 2019		

Installation: Improved Vibration	on Control System		Method of Im	plementation	ı: Various			Installation N	lame:			
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#### Installation Schedule

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LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

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Exhibit F	P-3A	ation / Budget Activity / Budget Sub Activity / Budget Sub Activity / BA 02: Modification Control of Aircraft  of Systems Affected: CH-47  rer Information: Maintenance Training Devices (Moder Name: TBD)  ve Leadtime (in Months): 3  ates FY 2012 FY  ates Jan 2012  tes Jan 2013  Total Cost (\$M\$)  Of (0.000 One)		ny														Date: A	pril 20	013										
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LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

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Exhibit P	-3A, I	ndiv	idu	al Modi	ficati	on: PE	3 2014	4 Arr	ny													Da	ate: A	\pri	1 2013	3				
	ircraft	Prod	cure	ment, A	rmy /	BA 02							<b>Nomen</b> 47 Carg			ter Mo	ods (I	MYP)				(M	lodifid tle):	cati	on Ni	umb	er - N	<b>ature</b> <i>Modific</i> licopte		s
Models o	of Sys	tems	s Af	fected:	CH-4	17				Type Mod	difica	tion: U	Inclassit	fied					R	elated	RD	Т&Е	PEs	:						
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Manufacture	er Nam	e: TBI	D										N	/lanuf	facturer	Locati	on: TE	3D												
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Mod	els of	Sys	tems	Af	ected:	CH-4	17				Type N	/lodi	fication:	Jnclas	sified					Rel	lated R	DT8	&E PEs:				•		
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Exh	ibit P-	3A, I	ndivi	dual	Modi	ficati	on: P	B 20	14 Arm	ıy														Date: A	pril 2	013				
203	1A: Aiı	rcraft	Proc	urem	ent, A	rmy /	BA 02						<b>Line I</b> )252 -				-	oter Mo	ods (	MYP)				Title):	cation	Numb	ber	clature - Modifid Helicopte		
Mod	lels of	f Sys	tems	Affe	cted:	CH-4	7				Type N	/lodi	ficatio	n: U	nclass	sified					Re	elated F	RDT	&E PEs	:					
Manı	facture	er Info	rmatic	n: A\	CATT																									
Manu	facture	r Nam	e: PEC	STR	ICOM											Manuf	acture	er Locati	on: O	rlando,	FL									
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Exh	ibit P-	-3A, I	Indiv	idual	Modif	icatio	n: PB	2014 A	rmy													Date: Ap	oril 20	13				
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Manu	acturer	Name	e: Boei	ng												Manut	facture	er Locati	ion: Ri	idley Pa	rk, PA	4								
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Instal All Prior FY 201 TO Control	Value of the second of the sec	Cost		Engin	e Impro	Pr	ior Yeach) al Cost (\$0.00000000000000000000000000000000000	.000 .000 .000 .000 .000 .000 .000 .00	Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -	FY 20 Qty (Ea Total Cost 0	D13  ch) / t (\$ M )  / 0.000  / -  / -  / -  / -  / -  / -  / -	FY 2014 Base  Qty (Each) / Total Cost (\$ M )  0 / 0.000 - / / / / / / / / / / / / / -	FY 2 OC  Qty (E Total Co	2014 CO Each) / sst (\$ M )	Tot: Qty (Ea Total Cos: 0	al     (sch) / (t (\$ M )   / (0.000   / -   /	Qty (E Total Cos (	ach) / st (\$ M) 0 / 0.000 / - / - / - / - / - / - / - / - / -	Qty (Eas	ch) / (\$ M ) 0.000 / - / - / - / - / - / - / - / - / -	F)	Y 2017 y (Each) / Cost (\$ M ) 0 / 0.000 - / / / / / / / / / -	Qty (Eac Total Cost	ch) / (\$ M ) / 0.000 / - / - / - / - / - / - / - / - / - / -	Comp Oty (Ee Total Coss 0	Diete ach) / st (\$M) / 0.000 / - / - / - / - / - / - / - / - / - / -	Qty (E: Total Cost	Each) / sst (\$ / 0 / 0.0   / -   /   /
Instal All Prior FY 201 TO Control	Value of the second of the sec	Cost	dule		e Impro	Pr	ior Yea hty (Each; al Cost (\$ 0 / 0 0 / 0	.000 .000 .000 .000 .000 .000 .000 .00	Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -	FY 20 Qty (Ea Total Cost 0	D13  ch) / t (\$ M )  / 0.000  / -  / -  / -  / -  / -  / -  / -	FY 2014 Base  Qty (Each) / Total Cost (\$ M )  0 / 0.000 - / / / / / / / / / / / / / -	FY 2 O0  Qty (E Total Co	2014 CO Each) / sst (\$ M )	Tot: Qty (Ea Total Cos: 0	al     (sch) / (t (\$ M )   / (0.000   / -   /	Qty (E Total Cos (	ach) / st (\$ M ) 0 / 0.000 / - / - / - / - / - / - / - / - / - / -	Qty (Eas	ch) / (\$ M ) 0.000 / - / - / - / - / - / - / - / - / -	F)	Y 2017 y (Each) / Cost (\$ M) 0 / 0.000 - / / / / / / / / / / / / / / / -	Qty (Eac Total Cost	ch) / (\$ M ) / (0.000 / - / - / - / - / - / - / - / - / -	Comp Oty (Ee Total Coss 0	Diete ach) / st (\$M) / 0.000 / - / - / - / - / - / - / - / - / - / -	Qty (E: Total Cost	Each) / sst (\$ / 0 / 0.0   / -   /   /
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Instal All Prior FY 201 TO Control	Illation Years 2 3 4 5 6 7 8 hiplete	Cost	dule FY	2012		Pri G Tote	ior Yea  ty (Each) al Cost (\$ 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/	nars () / ( M ) () ( M ) () ( M ) () ( M ) () () ( M ) () () () () () () () () () () () () (	Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -	FY 20 Qty (Ea Total Cost 0	013    cch   /     (\$ M )	FY 2014 Base Qty (Each) / Total Cost (\$ M )  0 / 0.000 - / / / / / / / / / / / -	FY 2 OC Qty (E Total Co	2014 CO Each) / sst (\$ M) / - / / - / / - /	Total Oty (Ea Total Coss 0	al sch) / t (\$ M) / (0.000 / - / / / / / / / / - / / - /	Oty (E Total Cox	ach) / st (\$ M ) 0 / 0.000 / - / - / - / - / - / - / - / - / -	Qty (Ea Total Cost	ch) / (\$ M ) 0.000 / - / - / - / - / - / - / - / - / -	Gty Total	Y 2017  y (Each) / Cost (\$ M )  0 / 0.000  - / / / / / / / / -	Oty (Eac Total Cost	ch) / (\$ M) / (\$ M) / (0.000 / - / - / - / - / - / - / - / - / -	Comp	Diete  ach) / st (\$ M )  7 0.000  7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	Qty (E: Total Cost	Each) / sst (\$ / 0 / 0.0   / -   /   /

LI AA0252 - CH-47 Cargo Helicopter Mods (MYP) Army

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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

AA0270 - Fixed Wing Mods

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready):

**Program Elements for Code B Items:** 

Other Related Program Elements: 0203744A

MDAP/MAIS Code(s):

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	206.965	12.107	24.842	17.500	-	17.500	15.167	16.612	17.833	16.695	-	327.721
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	206.965	12.107	24.842	17.500	-	17.500	15.167	16.612	17.833	16.695	-	327.721
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	206.965	12.107	24.842	17.500	-	17.500	15.167	16.612	17.833	16.695	-	327.721
	(The following	g Resource Sum	mary rows are fo	or informational p	urposes only. Th	he corresponding	budget requests	s are documente	d elsewhere.)	1	-	
Initial Spares (\$ in Millions)	_	_	_	-	_	_	-	-	-	_	_	-

	(	<b>,</b>	,	,			,					
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
#		*				•	•				-	•

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### **Description:**

The budget line updates and modernizes Army fixed wing aircraft communication, navigation, surveillance, engines, and Department of Defense (DoD) mandated safety equipment to current and evolving international standards. In addition, it provides for the procurement of test equipment and other commercial and military support equipment. These modifications ensure continued worldwide deployment capability and safe operations.

Sec	ondary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	12.107	10.259	10.112	-	10.112	8.825	9.431	9.771	10.392
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	9.571	4.758	-	4.758	4.514	4.739	4.553	3.946
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	5.012	2.630	-	2.630	1.828	2.442	3.509	2.357

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P-1 Line #20

201

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	
2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:	AA0270 - Fixed Wing Mods	
Modification Of Aircraft		

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements: 0203744A

#### MDAP/MAIS Code(s):

Item Sche	dule		Р	rior Year	's		FY 2012			FY 2013		FY	2014 Ba	se	F١	2014 O	co	FY	2014 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
0000 - Fixed Wing Aircraft Modifications	P3A		-	-	206.965	-	-	12.107	-	-	24.842	-	-	17.500	-	-	-	-	-	17.500
Total Gross/Weapon System Cost					206.965			12.107			24.842			17.500			-			17.500
Item Sche	dule			FY 2015			FY 2016			FY 2017			FY 2018		To	Comple	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost br>(\$ M)															
Item Nomenclature*  0000 - Fixed Wing Aircraft Modifications	Exhibits P3A	1												1						

<sup>\*</sup>Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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

#### Justification:

FY14 Base procurement dollars in the amount of \$17.500 million supports communications, navigation, and surveillance equipment 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 requirements for new avionics equipment continue, aircraft delays and airspace exclusion 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.

FY14 procurement dollars of \$17.500 million are linked to RDT&E PE 0203744A Project D18 - FY14 RDT&E dollars are \$2.833 million.

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.

LI AA0270 - Fixed Wing Mods Army

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Appropriation / Budget Activity 2031A: Aircraft Procurement, Arn Aircraft / BSA 10: Modification Of	ny / BA 02: N			<b>Line Item</b> 0270 - Fixed					(Modific Title):		<b>enclature</b> per - Modifica Aircraft Mod	
Models of Systems Affected: A wing aircraft	II series Arm	y fixed		ification: R bility, Comp			dization,	Related RI	OT&E PEs:			
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	206.965	12.107	24.842	17.500	-	17.500	15.167	16.612	17.833	16.695	-	327.721
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	206.965	12.107	24.842	17.500	-	17.500	15.167	16.612	17.833	16.695	-	327.721
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	206.965	12.107	24.842	17.500	-	17.500	15.167	16.612	17.833	16.695	-	327.721
	(The following	Resource Sum	mary rows are f	or informational p	ourposes only. Th	he corresponding	g budget request	s are documente	d elsewhere.)	1	*	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	-	-	-	-	-	-	-	-	-	-	-	-

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Exhibit P-3A. Individual Modification: PB 2014 Army

#### **Description:**

(Units in Thousands)

The budget line updates and modernizes all series Army fixed wing aircraft communication, navigation, surveillance, engines and Department of Defense mandated safety equipment to current and evolving international standards. It provides for the procurement of test equipment and other commercial and military support equipment. These modifications ensure continued worldwide deployment capability and safe operations.

FY14 Base procurement dollars in the amount of \$17.500 million supports communications, navigation, and surveillance equipment 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 requirements for new avionics equipment continue, aircraft delays and airspace exclusion 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.

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Date: April 2013

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-3A, Individual Modification: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	<b>Modification Nomenclature</b>
2031A: Aircraft Procurement, Army / BA 02: Modification of	AA0270 - Fixed Wing Mods	(Modification Number - Modification
Aircraft / BSA 10: Modification Of Aircraft		Title):
		0000 - Fixed Wing Aircraft Modifications

**Models of Systems Affected:** All series Army fixed wing aircraft

**Type Modification:** Rationalization, Standardization, Interoperability, Compatibility, Simplification

Related RDT&E PEs:

and grant and			· · · · · · · · · · · · · · · · · · ·		-,,							
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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												
Fixed Wing Aircraft Modifications												
A Kits												_
Recurring												_
Installation Kits	190 / 144.676	14 / 8.375	15 / 17.289	14 / 12.150	- / -	14 / 12.150	18 / 10.517	19 / 11.528	16 / 12.383	17 / 11.586	- / -	303 / 228.50
Data	0 / 0.200	- /0.100	- / 0.100	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.100	- /0.100	- / 0.100	- / -	- / 0.90
Subtotal Recurring	190 / 144.876	14 / 8.475	15 / 17.389	14 / 12.250	- / -	14 / 12.250	18 / 10.617	19 / 11.628	16 / 12.483	17 / 11.686	- / -	303 / 229.40
Total, Fixed Wing Aircraft Modifications	190 / 144.876	14 / 8.475	15 / 17.389	14 / 12.250	- / -	14 / 12.250	18 / 10.617	19 / 11.628	16 / 12.483	17 / 11.686	- / -	303 / 229.40
Total Procurement, All Modifications	190 / 144.876	14 / 8.475	15 / 17.389	14 / 12.250	- / -	14 / 12.250	18 / 10.617	19 / 11.628	16 / 12.483	17 / 11.686	- / -	303 / 229.40
Total Procurement and Support	144.876	8.475	17.389	12.250	-	12.250	10.617	11.628	12.483	11.686	-	229.40
Fixed Wing Aircraft Modifications Installation Cost	190 / 62.089	14 / 3.632	15 / 7.453	14 / 5.250	- / -	14 / 5.250	18 / 4.550	19 / 4.984	16 / 5.350	17 / 5.009	- / -	303 / 98.31
Total Installation Cost	190 / 62.089	14/3.632	15 / 7.453	14 / 5.250	- / -	14 / 5.250	18 / 4.550	19 / 4.984	16 / 5.350	17 / 5.009	- / -	303 / 98.31
Total Cost (Procurement + Support + Installation)	206.965	12.107	24.842	17.500	-	17.500	15.167	16.612	17.833	16.695	-	327.72

LI AA0270 - Fixed Wing Mods Army

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Exhibit P-3A, Indi	vidual Modification: P	B 2014 Army				Date: April 2013	
2031A: Aircraft Pro	udget Activity / Budge curement, Army / BA 0: Modification Of Aircraft		P-1 Line Item Nor AA0270 - Fixed W			Modification Nome (Modification Number Title): 0000 - Fixed Wing A	er - Modification
Models of System wing aircraft	s Affected: All series A	, ,	<b>pe Modification:</b> Ratio eroperability, Compatib	onalization, Standardization oility, Simplification	, Related RI	DT&E PEs:	
Manufacturer Informa	tion: Fixed Wing Aircraft Mo	odifications					
Manufacturer Name: M	ultiple Commercial Lenders			Manufacturer Location: TBD			
Administrative Leadtime	e (in Months): 2			Production Leadtime (in Mont	hs): 6		
Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Dec 2011	Dec 2012	Dec 2013	Dec 2014	Dec 2015	Dec 2016	Dec 2017
Delivery Dates	May 2012	May 2013	May 2014	May 2015	May 2016	May 2017	May 2018

Installation: Fixed Wing Aircraft Modificat	ions		Method of Im	plementation	: Contractor			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )							
All Prior Years	190 / 62.089	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	190 / 62.089
FY 2012	0 / 0.000	14 / 3.632	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	14 / 3.632
FY 2013	0 / 0.000	- / -	15 / 7.453	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 7.453
FY 2014	0 / 0.000	- / -	- / -	14 / 5.250	- / -	14 / 5.250	- / -	- / -	- / -	- / -	- / -	14 / 5.250
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	18 / 4.550	- / -	- / -	- / -	- / -	18 / 4.550
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	19 / 4.984	- / -	- / -	- / -	19 / 4.984
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	16 / 5.350	- / -	- / -	16 / 5.350
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	17 / 5.009	- / -	17 / 5.009
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	190 / 62.089	14 / 3.632	15 / 7.453	14 / 5.250	- / -	14 / 5.250	18 / 4.550	19 / 4.984	16 / 5.350	17 / 5.009	- / -	303 / 98.317

### Installation Schedule

		0004	u.0																												
			FY	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	016			FY 2	017			FY 20	018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	190	3	2	3	6	2	3	5	5	2	2	5	5	4	4	5	5	4	5	5	5	4	4	4	4	4	4	4	5	-	303
Out	169	21	3	2	3	6	2	3	5	5	2	2	5	5	4	4	5	5	4	5	5	5	4	4	4	4	4	4	4	5	303

LI AA0270 - Fixed Wing Mods Army

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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

AA0480 - Utility Helicopter Mods

536.208

1.127.418

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

**Program Elements for Code B Items:** 

**Other Related Program Elements:** 

3.091.947

3.945.895

Continuina

Continuina

206

MDAP/MAIS Code(s):

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,252.180	74.745	73.804	74.095	-	74.095	77.214	89.066	117.494	149.944	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	13.500	-	-	-	-	-	-	-	-	-	-	13.500
Net Procurement (P1) (\$ in Millions)	1,238.680	74.745	73.804	74.095	-	74.095	77.214	89.066	117.494	149.944	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	13.500	-	-	-	-	-	-	-	-	-	-	13.500
Total Obligation Authority (\$ in Millions)	1,252.180	74.745	73.804	74.095	-	74.095	77.214	89.066	117.494	149.944	Continuing	Continuing
	(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)	•		
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

834.156

770.567

### **Description:**

(Units in Thousands)

Gross/Weapon System Unit Cost

Utility Helicopter Mods include modifications to the UH-60 BLACKHAWK helicopter and the UH72A LAKOTA helicopter. The UH-60 BLACKHAWK helicopter is the Army's utility helicopter in the future force. The UH-72A LAKOTA helicopter provides general aviation support for aviation units in the active and reserve components.

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.

Secon	dary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	21.580	20.298	31.353	-	31.353	20.598	89.066	117.494	149.944
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	53.165	53.506	42.742	-	42.742	56.616	-	-	-

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

								UNC	CLASS	SIFIED	)									
Exhibit P-40, Bu	dget Item Jı	ustifi	cation	Sheet:	PB 2014	4 Army									Date	: April	2013			
<b>Appropriation</b> / 2031A: Aircraft P Modification Of A	rocurement,	-	_		•		aft / BS	A 10:			Item No - Utility H			s						
ID Code (A=Service Read	dy, B=Not Service Re	eady) :			[1	Program	Element	s for Cod	e B Item	s:			Oth	er Relate	d Prograi	m Eleme	nts:			
MDAP/MAIS Code(s	):				'								'							
Item Sch	edule		F	Prior Yea	rs		FY 2012	!		FY 2013	3	FY	2014 B	ase	FY	/ 2014 O	СО	FY	2014 To	tal
		ID	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cost	Unit Cost	Qty	Total Cos
Item Nomenclature*	Exhibits	CD	(\$ K )	(Each)	(\$ M)	(\$ K )	(Each)	(\$ M )	(\$ K )	(Each)	(\$ M )	(\$ K )	(Each)	(\$ M)	(\$ K )	(Each)	(\$ M)	(\$ K )	(Each)	(\$ M )
0000 - Utility Helicopter Modifications	P3A		-	-	1,252.180	-	-	74.745	-	-	73.804	-	-	74.095	-	-	-	-	-	74.095
Total Gross/Weapon System Cost					1,252.180			74.745			73.804			74.095			-			74.09
Item Sch	edule			FY 2015		,	FY 2016	;		FY 2017	,		FY 2018	3	To	Compl	ete		Total	
Item Nomenclature*	Exhibits	ID	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cos
0000 - Utility Helicopter Modifications	P3A		-	-	77.214	-	-	89.066	-	-	117.494	-	-	149.944	(\$11)	Continuing		(\$717)	Continuing	, ,
Total Gross/Weapon System Cost					77.214			89.066			117.494			149.944		Continuin	g		Continuing	ı
*Item Nomenclature repr	esents Item Numb	per, DC	DIC, and I	Item Name	for the P40	A and P5; I	Name for	the P18 and	P23; Mod	dification N	umber and	Modificatio	n Title for	the P3A; Ite	em Number	and Item	Name for th	e P10.		
Justification: FY 14 Base procure modification that re use. The existing in HH-60A/L/M. The U	duces the risk o Iternal hoist has	f a pos	st-crash f icant obs	ire. The E	xternal Hi issues ar	gh Speed nd takes u	Hoist is p valuab	a modifica le cabin s	ition to Ul pace in th	H-60A/L a ne aircraft	aircraft dev t thus the A	reloped to Army deci	supplended subset subsets subs	nent and e andardize	eventually the exter	replace nal hoist	the interna	I rescue h	oist curre	•

LI AA0480 - Utility Helicopter Mods Army

Exhibit P-3A, Individual Modification: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of Aircraft	P-1 Line Item Nomenclature: AA0480 - Utility Helicopter Mods	Modification Nomenclature (Modification Number - Modification Title): 0000 - Utility Helicopter Modifications

Models of Systems Affected: ∪	H-60L		Type Modi	ification: O	perational			Related R	DT&E PEs:			
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,252.180	74.745	73.804	74.095	-	74.095	77.214	89.066	117.494	149.944	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,252.180	74.745	73.804	74.095	-	74.095	77.214	89.066	117.494	149.944	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,252.180	74.745	73.804	74.095	-	74.095	77.214	89.066	117.494	149.944	Continuing	Continuing
	(The following	Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)		)	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	-	-	-	-	-	-	-	-	-	-	-	-

<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## **Description:**

Utility Helicopter Mods include modifications to the UH-60 BLACKHAWK and the UH-72A LAKOTA helicopter.

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-3A, Individual Modification: PB 2014 Army P-1 Line Item Nomenclature:

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

AA0480 - Utility Helicopter Mods

**Modification Nomenclature** 

(Modification Number - Modification

Title):

Date: April 2013

0000 - Utility Helicopter Modifications

Aircraft / BSA 10: Modification Of Aircraft

Models of Systems Affected: UH-60L		Type N	<b>l</b> odification	<b>n:</b> Operati	onal		Re	lated RDT	&E PEs:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , ,	,	,	,	,	, , ,	, ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	,	1
Crashworthy External Fuel System (CEFS)												_
A Kits												_
Recurring												
A-Kits (A/L)	831 / 42.090	76 / 5.400	53 / 3.767	65 / 4.800	- / -	65 / 4.800	52 / 3.839	- / -	- / -	- / -	- / -	1,077 / 59.89
A-Kits (GFE to Production)	32 / 2.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	32 / 2.70
A-Kits (GFE to SAR Acft)	10 / 0.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	10 / 0.60
B-kits	442 / 53.000	26 / 4.000	21 / 3.200	22 / 3.400	- / -	22 / 3.400	18 / 2.718	- / -	- / -	- / -	- / -	529 / 66.31
Support Equipment/Other	0 / 33.200	- / 0.966	- / 1.405	- / 1.263	- / -	- / 1.263	- / 0.751	- / -	- / -	- / -	- / -	- / 37.58
Subtotal Recurring	1,315 / 131.590	102 / 10.366	74 / 8.372	87/9.463	- / -	87 / 9.463	70 / 7.308	- / -	- / -	- / -	- / -	1,648 / 167.09
Total, Crashworthy External Fuel System (CEFS)	1,315 / 131.590	102 / 10.366	74 / 8.372	87 / 9.463	- / -	87 / 9.463	70 / 7.308	- / -	- / -	- / -	- / -	1,648 / 167.09
UH-60A to UH-60L Conversion												
A Kits												
Recurring												
other	85 / 168.030	43 / 53.165	42 / 53.506	37 / 42.742	- / -	37 / 42.742	48 / 56.616	- / -	- / -	- / -	- / -	255 / 374.05
Subtotal Recurring	85 / 168.030	43 / 53.165	42 / 53.506	37 / 42.742	- / -	37 / 42.742	48 / 56.616	- / -	- / -	- / -	- / -	255 / 374.05
Non-Recurring	'											
other	0 / 858.122	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 858.12
			,	,								
Subtotal Non-Recurring	0 / 858.122	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /858.12
Subtotal Non-Recurring Total, UH-60A to UH-60L Conversion	0 / 858.122 85 / 1,026.152	- / - 43 / 53.165	42 / 53.506		- / -	- / - 37 / 42.742	- / - 48 / 56.616	- / -	- / -	- / -	- / -	- / 858.12 255 / 1,232.18
<del></del>												
Total, UH-60A to UH-60L Conversion												
Total, UH-60A to UH-60L Conversion UH-60L Digital												
Total, UH-60A to UH-60L Conversion UH-60L Digital A Kits												
Total, UH-60A to UH-60L Conversion  UH-60L Digital  A Kits  Recurring	85 / 1,026.152	43 / 53.165	42 / 53.506	37 / 42.742	- / -	37 / 42.742	48 / 56.616	- / -	- / -	- / -	- / -	255 / 1,232.18
Total, UH-60A to UH-60L Conversion  UH-60L Digital  A Kits  Recurring  Other	0 / 0.000	- / -	- / -	37 / 42.742	- / -	37 / 42.742	- / -	- / - 24 / 73.548	38 / 117.494	- / - 47 / 149.944	- / -	255 / 1,232.18
Total, UH-60A to UH-60L Conversion  UH-60L Digital  A Kits  Recurring  Other  Subtotal Recurring	0 / 0.000	- / - - / -	- / - - / -	37 / 42.742	- / -	37/42.742	- / - - / -	- / - 24 / 73.548 24 / 73.548	- / - 38 / 117.494 38 / 117.494	- / - 47 / 149.944 47 / 149.944	- / -	255 / 1,232.18 109 / 340.98 109 / 340.98
Total, UH-60A to UH-60L Conversion  UH-60L Digital  A Kits  Recurring  Other  Subtotal Recurring  Total, UH-60L Digital	0 / 0.000	- / - - / -	- / - - / -	37 / 42.742	- / -	37/42.742	- / - - / -	- / - 24 / 73.548 24 / 73.548	38 / 117.494 38 / 117.494	- / - 47 / 149.944 47 / 149.944	- / -	255 / 1,232.18 109 / 340.98 109 / 340.98
Total, UH-60A to UH-60L Conversion  UH-60L Digital  A Kits  Recurring  Other  Subtotal Recurring  Total, UH-60L Digital  External High Speed Hoist  A Kits	0 / 0.000	- / - - / -	- / - - / -	37 / 42.742	- / -	37/42.742	- / - - / -	- / - 24 / 73.548 24 / 73.548	38 / 117.494 38 / 117.494	- / - 47 / 149.944 47 / 149.944	- / -	255 / 1,232.18 109 / 340.98 109 / 340.98
Total, UH-60A to UH-60L Conversion  UH-60L Digital  A Kits  Recurring  Other  Subtotal Recurring  Total, UH-60L Digital  External High Speed Hoist	0 / 0.000	- / - - / -	- / - - / -	37 / 42.742	- / -	37/42.742	- / - - / -	- / - 24 / 73.548 24 / 73.548	38 / 117.494 38 / 117.494	- / - 47 / 149.944 47 / 149.944	- / -	255 / 1,232.18 109 / 340.98 109 / 340.98

LI AA0480 - Utility Helicopter Mods Army

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Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0480 - Utility Helicopter Mods

Date: April 2013

Modification Nomenclature

(Modification Number - Modification

Title):

0000 - Utility Helicopter Modifications

Models of Systems Affected: UH-60L Type Modification: Operational Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )							
Total, External High Speed Hoist	0 / 0.000	31 / 10.014	36 / 11.126	65 / 21.190	- / -	65 / 21.190	44 / 12.290	55 / 15.518	- / -	- / -	- / -	231 / 70.138
UH-60 SPONSON FLIR												
A Kits												
Recurring												
A Kit	60 / 7.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	60 / 7.600
B Kit	80 / 59.818	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	80 / 59.818
Support Equipment	0 / 1.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.800
Interim Contractor Support	0 / 2.610	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 2.610
Subtotal Recurring	140 / 71.828	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	140 / 71.828
Total, UH-60 SPONSON FLIR	140 / 71.828	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	140 / 71.828
Ballistic Protection Systems (BAPS)												
A Kits												
Recurring												
Other	72 / 8.694	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 8.694
Interim Contractor Support	0 / 13.518	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.518
Subtotal Recurring	72 / 22.212	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 22.212
Total, Ballistic Protection Systems (BAPS)	72 / 22.212	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	72 / 22.212
Total Procurement, All Modifications	1,612 / 1,251.782	176 / 73.545	152 / 73.004	189 / 73.395	- / -	189 / 73.395	162 / 76.214	79 / 89.066	38 / 117.494	47 / 149.944	- / -	2,455 / 1,904.444
Total Procurement and Support	1,251.782	73.545	73.004	73.395	-	73.395	76.214	89.066	117.494	149.944	-	1,904.444
Crashworthy External Fuel System (CEFS) Installation Cost	28 / 0.400	76 / 1.200	53 / 0.800	65 / 0.700	- / -	65 / 0.700	52 / 1.000	- / -	- / -	- / -	807 / 6.200	1,081 / 10.300
UH-60A to UH-60L Conversion Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
UH-60L Digital Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
External High Speed Hoist Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
UH-60 SPONSON FLIR Installation Cost	20 / 0.000	15 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / -
Ballistic Protection Systems (BAPS) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
	48 / 0.400	91 / 1.200	53 / 0.800	65 / 0.700	- / -	65 / 0.700	52 / 1.000	- / -	- / -	- / -	807 / 6.200	1,116 / 10.300
Total Installation Cost	4070.400	0										

LI AA0480 - Utility Helicopter Mods Army UNCLASSIFIED
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Exhibit P-3A, Ind	ividual Modification: P	B 2014 Army				Date: April 2013	
2031A: Aircraft Pro	sudget Activity / Budge ocurement, Army / BA 03 Modification Of Aircraft		P-1 Line Item No AA0480 - Utility H			Modification Nome (Modification Number Title): 0000 - Utility Helicop	er - Modification
Models of System	ns Affected: UH-60L	Туре	Modification: Oper	ational	Related R	DT&E PEs:	
Manufacturer Informa	ntion: Crashworthy External	Fuel System (CEFS)			·		
Manufacturer Name: R	obertson Fuel Systems, LLC			Manufacturer Location: T	empe, AZ		
Administrative Leadtim	e (in Months): 1			Production Leadtime (in I	Months): 2		
Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Nov 2011	Nov 2012					
Delivery Dates	Jan 2012	Jan 2013					

Installation: Crashworthy Ext	ternal Fuel System (CEFS)		Method of Im	nplementation	ı: Various			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)						
All Prior Years	28 / 0.400	76 / 1.200	0 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	104 / 1.600
FY 2012	0 / 0.000	- / -	53 / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	53 / 0.800
FY 2013	0 / 0.000	- / -	- / -	65 / 0.700	- / -	65 / 0.700	- / -	- / -	- / -	- / -	- / -	65 / 0.700
FY 2014	0 / 0.000	- / -	- / -	- / -	- / -	- / -	52 / 1.000	- / -	- / -	- / -	- / -	52 / 1.000
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	807 / 6.200	807 / 6.200
Total	28 / 0.400	76 / 1.200	53 / 0.800	65 / 0.700	- / -	65 / 0.700	52 / 1.000	- / -	- / -	- / -	807 / 6.200	1,081 / 10.300

### Installation Schedule

			-																												
			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	:018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	835	19	19	19	19	13	13	13	14	16	16	16	17	13	13	13	13	-	-	-	-	-	-	-	-	-	-	-	-	-	1,081
Out	828	7	19	19	19	19	13	13	13	14	16	16	16	17	13	13	13	13	-	-	-	-	-	-	-	-	-	-	-	-	1,081

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Exhibit P-3A, Indi	vidual Modification: P	B 2014 Army				Date: April 2013	
2031A: Aircraft Pro	udget Activity / Budge ocurement, Army / BA 0 Modification Of Aircraft		P-1 Line Item No AA0480 - Utility F			Modification Nome (Modification Number Title): 0000 - Utility Helicop	er - Modification
Models of System	ns Affected: UH-60L	Туре	Modification: Ope	rational	Related R	DT&E PEs:	
Manufacturer Informa	tion: UH-60A to UH-60L Cor	version					
Manufacturer Name: Co	orpus Christi Army Depot			Manufacturer Location: C	Corpus Christi Army Dep	ot	
Administrative Leadtime	e (in Months): 1			Production Leadtime (in I	Months): 12		
Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Oct 2011	Oct 2012					
Delivery Dates	Oct 2012	Oct 2013					

Installation: UH-60A to UH-6	OL Conversion		Method of Im	nplementation	ı: Depot			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)			
All Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000
FY 2012	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	0 / 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

## Installation Schedule

		••••																													
			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	85	10	11	11	11	10	10	11	11	9	9	9	10	12	12	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	255
Out	73	-	-	-	12	10	11	11	11	10	10	11	11	9	9	9	10	12	12	12	12	-	-	-	-	-	-	-	-	-	255

**UNCLASSIFIED** 

LI AA0480 - Utility Helicopter Mods Page 7 of 11 Army

Exhibit P-3A, Indiv	ridual Modification: Pl	B 2014 Army				Date: April 2013	
2031A: Aircraft Prod	dget Activity / Budge curement, Army / BA 02 lodification Of Aircraft		P-1 Line Item No AA0480 - Utility H			Modification Nomel (Modification Number Title): 0000 - Utility Helicop	r - Modification
Models of Systems	s Affected: UH-60L	Туре	Modification: Ope	rational	Related R	OT&E PEs:	
Manufacturer Informati	on: UH-60L Digital						
Manufacturer Name: Cor	rpus Christi Army Depot			Manufacturer Location: C	orpus Christi Army Depo	ot	
Administrative Leadtime	(in Months): 1			Production Leadtime (in I	Months): 12		
Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates						Oct 2015	
Delivery Dates						Oct 2016	

Installation: UH-60L Digital			Method of In	nplementation	ı: Depot			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )							
All Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000
FY 2012	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	0 / 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

#### Installation Schedule

- 1			000	u																												
				FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	017			FY 20	<b>)18</b>			
		APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
	In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	9	9	10	10	11	12	12	12	-	109
	Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	6	9	9	10	10	11	12	12	12	109

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Exhibit P-3A, Indiv	ridual Modification: P	B 2014 Army				Date: April 2013	
2031A: Aircraft Prod	dget Activity / Budge curement, Army / BA 02 lodification Of Aircraft		P-1 Line Item No AA0480 - Utility H			Modification Nome (Modification Number Title): 0000 - Utility Helicop	er - Modification
Models of Systems	s Affected: UH-60L	Туре	Modification: Ope	rational	Related RI	DT&E PEs:	
Manufacturer Informati	on: External High Speed H	oist					
Manufacturer Name: Bre	eze Eastern, Inc			Manufacturer Location: W	/hippany, NJ		
Administrative Leadtime	(in Months): 1			Production Leadtime (in I	Months): 1		
Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	May 2012	May 2013					
Delivery Dates	Jun 2012	Jun 2013					

Installation: External High Speed Hoist			Method of Im	nplementation	ı: Various			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)						
All Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000
FY 2012	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	0 / 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

## Installation Schedule

			-																												
			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	016			FY 2	2017			FY 2	2018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	-	7	8	8	8	9	9	9	9	16	16	16	17	11	11	11	11	13	14	14	14	-	-	-	-	-	-	-	-	-	231
Out	-	-	7	8	8	8	9	9	9	9	16	16	16	17	11	11	11	11	13	14	14	14	-	-	-	-	-	-	-	-	231

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Exhibit P-3A, Indivi	idual Modification: PE	3 2014 Army				Date: April 2013	
2031A: Aircraft Proc	dget Activity / Budget curement, Army / BA 02 odification Of Aircraft		P-1 Line Item Not AA0480 - Utility He			Modification Nome (Modification Numb Title): 0000 - Utility Helico	er - Modification
Models of Systems	Affected: UH-60L	Туре	Modification: Oper	ational	Related F	RDT&E PEs:	
Manufacturer Information	on: UH-60 SPONSON FLIR						
Manufacturer Name: FLIF	R, Inc.			Manufacturer Location: V	Wilsonville, OR		
Administrative Leadtime	(in Months): 1			Production Leadtime (in	Months): 1		
Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Sep 2011						
Delivery Dates	Oct 2011						

Installation: UH-60 SPONSON FLIR			Method of In	nplementation	ı: Various			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)							
All Prior Years	20 / 0.000	15 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	35 / 0.000
FY 2012	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	0 / 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	20 / 0.000	15 / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	35 / -

## Installation Schedule

- 1				-																												
				FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	:018			
		APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
In		80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80
0	ut	65	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	80

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P-1 Line #21

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Exhibit P-3A, Indivi	dual Modification: P	B 2014 Army				Date: April 2013	
	dget Activity / Budge urement, Army / BA 0 odification Of Aircraft		P-1 Line Item No AA0480 - Utility H			Modification Nome (Modification Number Title): 0000 - Utility Helicop	er - Modification
Models of Systems	Affected: UH-60L	Туре	e Modification: Ope	rational	Related RI	DT&E PEs:	
Manufacturer Information	on: Ballistic Protection Sy	stems (BAPS)					
Manufacturer Name: Prote	ective Group, Inc.			Manufacturer Location: M	liami Lakes, FL		
Administrative Leadtime (	(in Months): 1			Production Leadtime (in I	Months): 1		
Dates	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
Contract Dates	Sep 2011						
Delivery Dates	Oct 2011						

Installation: Ballistic Protection	on Systems (BAPS)		Method of Im	nplementation	ı: Various			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)			
All Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000
FY 2012	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	0 / 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

## Installation Schedule

Army

			FY 2	012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	2018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
In	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72
Out	54	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72

LI AA0480 - Utility Helicopter Mods UNCLASSIFIED

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

AZ2200 - Kiowa Mods Warrior

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements:

MDAP/MAIS Code(s):

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	136	-	-	-	-	-	27	33	38	40	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	395.083	92.552	192.484	184.044	-	184.044	423.960	426.309	453.496	398.286	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	395.083	92.552	192.484	184.044	-	184.044	423.960	426.309	453.496	398.286	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	395.083	92.552	192.484	184.044	-	184.044	423.960	426.309	453.496	398.286	Continuing	Continuing
	(The following	g Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **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.

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.

Item Sche	dule		Р	rior Yea	rs		FY 2012			FY 2013		FY	2014 Ba	se	FY	2014 O	00	FY	2014 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
several - Kiowa Warrior Modification Programs	P3A		-	-	395.083	-	-	92.552	-	-	192.484	-	-	184.044	-	-	-	-	-	184.044
Total Gross/Weapon System Cost					395.083			92.552			192.484			184.044			-			184.044

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LI AZ2200 - Kiowa Mods Warrior Army

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

								UNG	CLAS	SIFIE	)									
Exhibit P-40, Bu	dget Item Ju	stifi	cation	Sheet:	PB 201	4 Army									Date	: April	2013			
Appropriation / E 2031A: Aircraft Pr Modification Of Air	Budget Activ	/ity /	Budge	t Sub A	Activity	:	aft / BS	A 10:			Item No - Kiowa									
ID Code (A=Service Read	y, B=Not Service Rea	ady) :				Program	Element	ts for Cod	le B Item	ıs:			Oth	er Relate	d Prograr	n Eleme	nts:			
MDAP/MAIS Code(s)	:																			
Item Sche	edule			FY 2015			FY 2016	3		FY 2017	7		FY 2018		To	Comple	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost		otal Cos
several - Kiowa Warrior Modification Programs	P3A		-	-	423.960	-	-	426.309	-	-	453.496	-	-	398.286		Continuing	<u> </u>	C	ontinuing	
Total Gross/Weapon System Cost					423.960			426.309			453.496			398.286		Continuing	9	C	ontinuing	
*Item Nomenclature repre	esents Item Numbe	er, DO	DIC, and I	tem Name	for the P40	A and P5;	Name for	the P18 and	d P23; Mo	dification N	lumber and	Modificatio	n Title for	the P3A; Ite	m Number	and Item	Name for th	e P10.		
Note: Totals in this Exhib	it P-40 set may no	t be ex	act or add	due to rou	ınding.															
armed-reconnaissal	•	tform	until repla	aced/retir	ed.															

LI AZ2200 - Kiowa Mods Warrior Army

Exhibit P-3A, Individual Modification: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of Aircraft	P-1 Line Item Nomenclature: AZ2200 - Kiowa Mods Warrior	Modification Nomenclature (Modification Number - Modification Title): several - Kiowa Warrior Modification Programs

Models of Systems Affected: O	H-58D, OH-	58F	Type Modi	fication: O	perational/S	Safety		Related R	DT&E PEs:			
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	395.083	92.552	192.484	184.044	-	184.044	423.960	426.309	453.496	398.286	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	395.083	92.552	192.484	184.044	-	184.044	423.960	426.309	453.496	398.286	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	395.083	92.552	192.484	184.044	-	184.044	423.960	426.309	453.496	398.286	Continuing	Continuing
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)		1	1
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **Description:**

The Fielded Fleet Upgrades (FFU) and Weight Reduction Initiative (OSIP 2-02-01-0116) increases safety, maintains interoperability, increases reliability and lowers support costs of the OH-58D aircraft. Safety improvements are achieved through weight reduction which increases autorotational performance, operational performance in a Degraded Visual Environment (DVE), as well as the incorporation of a Dual Channel Full Authority Digital Electronic Controller (FADEC) system, providing critical redundancy. Interoperability is retained through enhanced mission computer processing allowing for common operating environment (COE) software upgrades. Modification includes production and fielding of lightweight floor armor, improved the reliability of the Single Channel FADEC, reduced weight Multi Function Displays (MFD), improved .50 cal gun system, reduced weight M279A1 HELLFIRE launcher, AN/AAR-57 Common Missile Warning System (CMWS), light weight composite Universal Weapons Pylon (UWP), improved lightweight heater system, Mast Mounted Sight (MMS) laser pointer, the AN/ARC-231 replacement radio, Health Usage Monitoring System (HUMS), and improved Level II Manned/Un-manned Teaming (L2MUM) that enables Un-manned Aerial System (UAS) full motion video.

The Cockpit and Sensor Upgrade Program (CASUP) (OSIP 2-08-01-0117) addresses additional capabilities, safety enhancements and obsolescence issues to allow the Kiowa Warrior to serve as the Army's armed reconnaissance, aviation platform until replaced/retired. CASUP will convert the OH-58F configuration. Efforts include upgrading Control Display Subsystem mission computers, avionics, intercom system, aircraft survivability systems, weapon systems, electrical systems, and cockpit instruments and displays, reducing weight and obsolescence, and replacing single with dual channel Full Authority Digital Electronic Control (FADEC), the mast mounted sight with the AN/AAS-53 Common Sensor Payload and structural modifications. The current fleet of aircraft along with aircraft built to replace wartime losses are planned to be upgraded to the OH-58F configuration, for a total of 368 aircraft. Four aircraft in the current fleet are planned to be modified with RDTE funding and will be fielded following the test program. It is anticipated that KW CASUP will remain in the inventory through 2036. Kiowa Warrior Training Aids, Devices, Simulators and Simulations (TADSS) will be upgraded to maintain concurrency.

The CASUP Long Lead Program (OSIP 2-08-01-0120) components include items that are common to other Army Aviation/DoD platforms and items that are unique to the OH-58F aircraft and are crucial to the program's execution as PM KW serves as the lead system integrator in lieu of an Original Equipment Manufacturer (OEM). Numerous CASUP components deliver more than 12 months after procurement; therefore, components to support CASUP Low Rate Initial Production (LRIP) Lot 1 which starts in FY 2015 must be procured in FY 2013. Items with lead times greater than 12 months include structural A-kits which include PYLON assembly (side beam and transverse), Increased Height Landing Gear (IHLG), Nose Mounted Sensor (NMS) Structure, Searchlight/MUM kit and Environmental Control System (ECS) Heater Kit.

LI AZ2200 - Kiowa Mods Warrior
Army

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P-1 Line #22

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-3A, Individual Modification: PB 2014 Arm	ny			Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity / 2031A: Aircraft Procurement, Army / BA 02: Modification Aircraft / BSA 10: Modification Of Aircraft	•	P-1 Line Item Nomenclature: AZ2200 - Kiowa Mods Warrior		Modification Nomenclature (Modification Number - Modification Title): several - Kiowa Warrior Modification Programs
Models of Systems Affected: OH-58D, OH-58F	Туре	Modification: Operational/Safety	Related RDT	&E PEs:

The Recapitalization Program (OSIP 2-11-01-0121) addresses critical reliability, maintainability and availability issues associated with the continued aging of the KW fleet. Funding procures tooling, new airframes and select components that will be installed on aircraft inducted into the KW CASUP production line. Efforts include production of new metal cabins manufactured by Bell Helicopter Textron, Inc. and tooling to support/increase production rate. The Recapitalization Program in combination with the KW CASUP results in production of zero-timed OH-58F airframes and eliminates post production structural overhauls that would be required to extend the life of the KW fleet beyond 2025.

OCO funding will procure Wartime Replacement Aircraft (WRA) (OSIP 2-10-01-0118) for those lost during Overseas Contingency Operations. These aircraft are being built using the "cabin" method and not procured as a complete aircraft from the original equipment manufacturer (Bell Helicopter). The Army uses divested OH-58A aircraft as donors to create the OH-58D cabin. Specifically, the donor OH-58A aircraft are de-populated and their center sections (cabins) modified at Bell Helicopter / Textron Incorporated (BHTI) into CDS4 configured Kiowa Warrior cabins. Due to the limited availability of donor aircraft, Bell Helicopter is performing non-recurring engineering efforts required for production of new metal (zero-timed) OH-58D cabins. Once new metal cabin production begins, no further OH-58A/C donor aircraft will be required for cabins. Upon delivery of a cabin from Bell Helicopter, Corpus Christi Army Depot (CCAD) installs all remaining structure, equipment, and modifications which have been qualified on the current fleet. CCAD conducts aircraft ground/flight test and acceptance.

Development	Status/Major Development Milestones	
Date	Title	Description
Dec 2010	CASUP Milestone B	
Mar 2015	CASUP Milestone C	
Sep 2016	CASUP First Unit Equipped (FUE)	

LI AZ2200 - Kiowa Mods Warrior
Army

Exhibit P-3A, Individual Modification: PB 2014 ArmyAppropriation / Budget Activity / Budget Sub Activity:<br/>2031A: Aircraft Procurement, Army / BA 02: Modification of<br/>Aircraft / BSA 10: Modification Of AircraftP-1 Line Item Nomenclature:<br/>AZ2200 - Kiowa Mods WarriorModification Nomenclature<br/>(Modification Number - Modification<br/>Title):<br/>several - Kiowa Warrior Modification<br/>Programs

Models of Systems Affected: OH-58	D, OH-58F	Type N	<b>l</b> odificatio	n: Operati	onal/Safety	/	Re	lated RDT	&E PEs:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M										
Procurement												
Fielded Fleet Upgrades and Weight Reduction												
A Kits												
Recurring												
Recurring Labor	0 / 2.900	- / -	- / 14.535	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 17.43
Data/Pubs/Manuals	0 / 2.000	- / -	- / 3.175	- / -	- / -	- / -	- / 0.795	- / 0.795	- / 0.795	- / 0.795	- / 0.695	- / 9.0
Support Equipment	0 / 10.386	- /4.406	- / 2.666	- /7.450	- / -	- /7.450	- /7.450	- /7.500	- /7.500	- /7.500	- /7.500	- / 62.35
Systems Engineering/Program Management	0 / 29.351	- / 0.240	- / 12.866	- /7.125	- / -	- /7.125	- /4.522	- /4.748	- /2.962	- / 1.975	- /2.629	- / 66.41
Facilities	0 / 3.357	- / -	- / 0.950	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /4.30
Training/Training Devices	0 / 7.800	- / 0.100	- / 2.279	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 10.17
Subtotal Recurring	0 / 55.794	- /4.746	- /36.471	- / 14.575	- / -	- /14.575	- /12.767	- /13.043	- /11.257	- /10.270	- /10.824	- /169.7
Non-Recurring												
Nonrecurring	0 / 1.200	- / -	- / 0.341	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.5
Subtotal Non-Recurring	0 / 1.200	- / -	- /0.341	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /1.5
B Kits	<u> </u>	'				1				1		
Recurring												
Hardware	0 / 152.564	- / 85.607	- / 73.417	- /20.991	- / -	- / 20.991	- / 49.249	- / 48.167	- / 31.057	- / 24.288	- / 35.181	- / 520.52
Subtotal Recurring	0 / 152.564	- /85.607	- /73.417	- /20.991	- / -	- /20.991	- /49.249	- /48.167	- /31.057	- / 24.288	- /35.181	- / 520.5
Total, Fielded Fleet Upgrades and Weight Reduction	0 / 209.558	- /90.353	- /110.229	- /35.566	- / -	- /35.566	- /62.016	- /61.210	- /42.314	- / 34.558	- /46.005	- /691.80
OH-58F CASUP		I				I.				I		
A Kits												
Recurring												
Training Devices / NET	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 27.821	- / 22.904	- / 46.650	- / 22.530	- / 50.551	- / 170.4
Support Equipment	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /2.368	- / 2.353	- / 1.413	- / 0.651	- / 0.846	- /7.63
Fielding	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /3.774	- /4.606	- /4.439	- /4.235	- / 32.500	- / 49.5
Post Deployment Software Supt	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- /4.562	- /6.071	- /7.634	- / 65.799	- / 84.0
Engineering Support	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /2.720	- /4.061	- /4.134	- /3.826	- / 28.779	- / 43.5
Program Management	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 17.515	- / 16.760	- / 17.306	- / 14.813	- /71.969	- / 138.3
Subtotal Recurring	0/0.000	- / -	- / -	- / -	- / -	- / -	- / 54.198	- / 55.246	- /80.013	- /53.689	- / 250.444	- /493.5
Total, OH-58F CASUP	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 54.198	- / 55.246	- /80.013	- / 53.689	- /250.444	- /493.5
OH-58F CASUP Long Lead						1				1		

LI AZ2200 - Kiowa Mods Warrior Army

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Exhibit P-3A, Individual Modification: PB 2014 ArmyAppropriation / Budget Activity / Budget Sub Activity:<br/>2031A: Aircraft Procurement, Army / BA 02: Modification of<br/>Aircraft / BSA 10: Modification Of AircraftP-1 Line Item Nomenclature:<br/>AZ2200 - Kiowa Mods WarriorModification Nomenclature<br/>(Modification Number - Modification<br/>Title):<br/>several - Kiowa Warrior Modification<br/>Programs

odels of Systems Affected: OH	l-58D, OH-58F	Type I	Modificatio	<b>n:</b> Operation	onal/Safety	/	Re	lated RDT	&E PEs:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) Total Cost (\$							
A Kits												,
Recurring												
CDS5 A-Kits	0 / 0.000	- / -	11 / 4.543	38 / 25.720	- / -	38 / 25.720	42 / 27.746	49 / 32.399	49 / 32.772	46 / 31.319	200 / 132.943	435 / 287.4
BHTI A-Kits	0 / 0.000	- / -	29 / 10.014	42 / 24.504	- / -	42 / 24.504	55 / 31.628	49 / 29.605	46 / 30.718	46 / 31.271	168 / 135.169	435 / 292.9
Engineering Support	0 / 0.000	- / -	- / 0.948	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /0.9
PMO	0 / 0.000	- / -	- / 0.741	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.7
Subtotal Recurring	0/0.000	- / -	40 / 16.246	80 / 50.224	- / -	80 / 50.224	97 / 59.374	98 / 62.004	95 / 63.490	92 / 62.590	368 / 268.112	870 / 582.0
Non-Recurring												
Tooling	0 / 0.000	- / -	- / 14.168	- / 23.341	- / -	- / 23.341	- / -	- / -	- / -	- / -	- / -	- / 37.5
Support Equipment	0 / 0.000	- / -	- / -	- / 2.827	- / -	- / 2.827	- / -	- / -	- / -	- / -	- / -	- /2.8
Subtotal Non-Recurring	0/0.000	- / -	- /14.168	- /26.168	- / -	- / 26.168	- / -	- / -	- / -	- / -	- / -	- /40.3
B Kits												,
Recurring												
NMS B-Kits	0 / 0.000	- / -	29 / 23.324	38 / 31.449	- / -	38 / 31.449	42 / 35.593	49 / 41.292	49 / 53.674	46 / 51.295	167 / 206.398	420 / 443.0
New IMCPU B-Kits	0 / 0.000	- / -	30 / 9.172	40 / 11.019	- / -	40 / 11.019	44 / 11.858	51 / 12.577	51 / 14.107	46 / 12.953	19 / 4.960	281 / 76.6
Other B-Kits	0 / 0.000	- / -	11 / 3.839	40 / 16.853	- / -	40 / 16.853	44 / 41.949	51 / 38.368	51 / 39.772	46 / 26.839	192 / 130.658	435 / 298.2
Subtotal Recurring	0/0.000	- / -	70 / 36.335	118 / 59.321	- / -	118 / 59.321	130 / 89.400	151 / 92.237	151 / 107.553	138 / 91.087	378 / 342.016	1,136 / 817.9
Total, OH-58F CASUP Long Lead	0 / 0.000	- / -	110 / 66.749	198 / 135.713	- / -	198 / 135.713	227 / 148.774	249 / 154.241	246 / 171.043	230 / 153.677	746 / 610.128	2,00 1,440.3
OH-58F CASUP Recapitalization												
A Kits												
Recurring												
OH-58F Cabin Recurring	0 / 0.000	- / -	- / -	- / -	- / -	- / -	20 / 74.144	20 / 71.697	20 / 69.810	20 / 68.622	80 / 266.770	160 / 551.0
Program Management	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.494	- / 0.484	- / 0.628	- / 0.618	- /2.430	- /4.6
Subtotal Recurring	0/0.000	- / -	- / -	- / -	- / -	- / -	20 / 74.638	20 / 72.181	20 / 70.438	20 / 69.240	80 / 269.200	160 / 555.6
Non-Recurring				ı						1		Į
OH-58F Cabin Tooling	0 / 0.000	- / -	- /5.887	- /7.906	- / -	- /7.906	- / 6.839	- / -	- / -	- / -	- / -	- / 20.6
Subtotal Non-Recurring	0/0.000	- / -	- /5.887	- /7.906	- / -	- /7.906	- /6.839	- / -	- / -	- / -	- / -	- /20.6
B Kits										1		J
Recurring												
Other Structural Components	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.863	- / 1.565	- / 1.617	- / 1.657	- /7.023	- / 13.7

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Exhibit P-3A, Individual Modification: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of Aircraft	P-1 Line Item Nomenclature: AZ2200 - Kiowa Mods Warrior	Modification Nomenclature (Modification Number - Modification Title): several - Kiowa Warrior Modification Programs

Models of Systems Affected: OH-58D, 0	OH-58F	Type I	<b>Modificatio</b>	n: Operati	onal/Safety	/	Re	lated RDT	&E PEs:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ N							
Subtotal Recurring	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /1.863	- /1.565	- /1.617	- /1.657	- /7.023	- /13.72
Total, OH-58F CASUP Recapitalization	0 / 0.000	- / -	- /5.887	- /7.906	- / -	- /7.906	20 / 83.340	20 / 73.746	20 / 72.055	20 / 70.897	80 / 276.223	160 / 590.05
Wartime Replacement Aircraft (WRA)												
A Kits												
Recurring												
AC Modification Quantity	15 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / -
BHTI Cabin Mod/New Metal Cabins	0 / 62.842	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 62.84
GFE/Hardware	0 / 76.330	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 76.33
CCAD Labor/Material	0 / 19.753	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 19.75
Program Support - Govt	0 / 6.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.90
ECP	0 / 15.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 15.50
Subtotal Recurring	15 / 181.325	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 181.32
Total, Wartime Replacement Aircraft (WRA)	15 / 181.325	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	15 / 181.32
Total Procurement, All Modifications	15 / 390.883	- /90.353	110 / 182.865	198 / 179.185	- / -	198 / 179.185	247 / 348.328	269 / 344.443	266 / 365.425	250 / 312.821	826 / 1,182.800	2,181 3,397.10
Total Procurement and Support	390.883	90.353	182.865	179.185	-	179.185	348.328	344.443	365.425	312.821	1,182.800	3,397.10
Fielded Fleet Upgrades and Weight Reduction Installation Cost	0 / 4.200	- /2.199	- /9.619	- /4.859	- / -	- /4.859	- /7.591	- /10.110	- /8.383	- /2.626	- /3.495	- / 53.08
OH-58F CASUP Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	27 / 68.041	33 / 71.755	38 / 79.688	40 / 82.841	226 / 476.810	364 / 779.13
OH-58F CASUP Long Lead Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
OH-58F CASUP Recapitalization Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Wartime Replacement Aircraft (WRA) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total Installation Cost	0 / 4.200	- /2.199	- /9.619	- /4.859	- / -	- /4.859	27 / 75.632	33 / 81.865	38 / 88.071	40 / 85.467	226 / 480.305	364 / 832.21
Total Cost (Procurement + Support + Installation)	395.083	92.552	192.484	184.044	-	184.044	423.960	426.308	453.496	398.288	1,663.105	4,229.32

LI AZ2200 - Kiowa Mods Warrior
Army

Exh	ibit P-	⋅3A, I	Indiv	idual	Modif	fication	on: P	B 2014	Army												D	ate: Ap	oril 201	3				
203		rcraft	t Proc	urem	ent, A	rmy /	BA 0	t Sub A 2: Modif				<b>Line I</b> (200 - F		-		-					(/ T	Modifica Modifica Title): everal - Program	ation N - Kiowa	lumbe	er - N	/lodifica		
Mod	lels of	f Sys	stems	Affe	cted:	OH-5	8D, C	)H-58F		Туре	Modi	ficatio	n: O	peratio	onal/S	Safety	y		I	Related F	RDT&I	E PEs:						
Manı	ıfacture	er Info	ormatio	on: Fie	lded Fl	eet Up	grade	s and We	ight Red	duction																		
Manu	ıfacture	r Nam	ne: vari	ous											Manuf	acture	r Locatio	n: various										
Admi	nistrativ	e Lea	adtime	(in Mon	ths):										Produc	ction L	eadtime	(in Month	s):									
	Dat	tes			FY 2	2012			FY 2013			FY 2	2014			FY 2	2015		F	Y 2016		F	Y 2017		T	FY 2	2018	
Contr	Iministrative Leadtime (in Months):  Dates FY 2012 FY 2013  ontract Dates																											
Deliv	ery Date	es																										
Insta	llation:	Fielde	led Flee	et Upgr	ades ar				2012			plemen FY 20	014	FY 2	014		2014	FV 201	$\dashv$	nstallation FV 2016	T		FV 20	18		Γο		al
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Insta	<b>llation</b> (or Years			et Upgra	ades ar	Pri	ior Yea ty (Each)	/ Qty / Otal C 200	(Each) / Cost (\$ M )	FY 20 Qty (Ea Total Cos	013 ach) / tf (\$ M)	FY 20 Bas Qty (Ea Total Cost	014 se ach) / st (\$ M)	FY 2 OC Qty (Ea Total Cos	014 O ach) / st (\$ M)	Qty (	(Each) / Cost (\$ M ) 0 / 0.000	Qty (Each Total Cost (	5 ( <i>M</i> )	FY 2016  Qty (Each) / Total Cost (\$ M  0 / 0.00	FY Qty (	(Each) / Cost (\$ M ) 0 / 0.000	Qty (Eac Total Cost	ch) / (\$ M ) / 0.000	Qty (E	Each) / ost (\$ M )	Qty (Ea Total Cos 0	ach) / st (\$ M
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All Prio	Years 2	Cost				C	Qty (Each) al Cost (\$ 0 / 0	.000 .000	Qty (Ea Total Cost 0 -	ch) / (\$ M ) / 0.000 / -	Qty (Ea Total Cost 0	ch) / f (\$ M ) / 0.000 / -	Qty (Eac Total Cost	eh) / (\$ M ) 0.000 / -	OCO  Qty (Each) /  Total Cost (\$ M  - / -  - / -	Qty (	otal (Each) / Cost (\$ M ) 0 / 0.000	Qty ( Total C	(Each) / Cost (\$ M ) 0 / 0.000	Qty	(Each) / Cost (\$ / 0 / 0.0	(1) Tot	Qty (Each al Cost ( 0 / 0	n) / \$ M ) 7	Qty (Eac Total Cost 0 / -	ch) / (\$ M ) / 0.000 / -	Qty (Ea Total Cos	ach) / st (\$ M)	Qty (E Total Cos (	est (\$ 1 0 / 0.0
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All Prio FY 201 FY 201 FY 201 FY 201 FY 201	Years 2 3 4 5 6 6	Cost				C	Oty (Each) al Cost (\$ 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0	.000 .000 .000 .000 .000	Qty (Ea Total Cost 0 - - -	ch) / ( (\$ M) / 0.000 / - / - / - / - / - / - / - / - / -	Qty (Ea Total Cosi	ch) / t (\$ M ) / 0.000 / - / - / - / - / - / -	Basing City (Each Total Cost of the Cost o	0.000	OCO  Qty (Each) / Total Cost (\$ M - / - / - / -	Qty (	(Each) / (cost (\$ M) 0 / 0.000 - / - / / / / / / / / / / / - / / / / / / / / / / / -	Qty (	(Each) / Cost (\$ M) 0 / 0.000 - / / / / / / / / / -	Qty Total	(Each), Cost (\$ / 0 / 0.0 - / - - / - - / - 33 / 71.7	70 Tot	Qty (Each al Cost (	D.000	Qty (Eac Total Cost 0 / - - - -	ch) / (\$ M ) 7 0.000 7 - 7 - 7 - 7 - 7 - 7 -	Comp  Qty (Ea Total Cos  Co	Diete ach) / st (\$ M ) 0 / 0.000	Qty (E Total Cos ( - - - 27	each) st (\$ 10 / 0.00 / 10 / 10 / 10 / 10 / 10 / 10
All Prio FY 201 FY 201 FY 201 FY 201 FY 201	Years 2 3 4 5 5 6 7	Cost				C	Oty (Each) al Cost (\$ 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0	.000 .000 .000 .000 .000 .000	Qty (Ea Total Cost 0 - - - -	ch) / (\$ M) / 0.000 / - / - / -	Qty (Ea Total Cost	ch) / f (\$ M) / 0.000 / - / - / -	Basing Control of the	eh) / (\$ M ) = 0.000	OCO  Qty (Each) / Total Cost (\$ M  -	Ti Otty ) Total C	(Each) / Cost (\$ M) 0 / 0.000 - / / / / -	Qty (	(Each) / Cost (\$ M ) 0 / 0.000 - / / / / / -	Qty Total	(Each) / Cost (\$ / O / O.C	70t (00 ) (1) (1) (1) (1) (1) (1) (1) (1) (1) (	Qty (Each al Cost ( 0 / ( - / - / - /	n) / s M ) T	Qty (Eac Total Cost 0 / - - - -	ch) / (\$ M ) 7 0.000 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	Comp Qty (Ea Total Cos 0	Diete ach) / st (\$ M ) / 0.000 / - / - / - / -	Qty (E Total Cost ) (1	Each) st (\$ 0 / 0.0  / / / 68.0 / 71.5
All Prio FY 201 FY 201 FY 201 FY 201 FY 201	Years 2 3 4 5 5 6 7 8	Cost				C	Oty (Each) al Cost (\$ 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0	.000 .000 .000 .000 .000 .000 .000 .00	Qty (Ea Total Cost	ch) / ( \$ M ) / 0.000 / - / - / - / - / - / - / - / - / -	Qty (Ea Total Cost	ch) / ( (\$ M ) / 0.000 / - / - / - / - / - / - / - / - / -	Basing Control of the	e ch) / (\$ M ) 0.000 / - / - / - / - / - / - / - / - / -	OCO  Qty (Each) / Total Cost (\$ M -	Ti Qty () Total C	(Each) / Cost (\$ M) 0 / 0.000 - / / / / / / / -	Qty (	(Each) / Cost (\$ M ) 0 / 0.000 - / / / / / / / / / -	Qty Total	(Each) (Cost (\$ 1	70 Tot	Oty (Each Cost (	n) / (\$\$ M) 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Qty (Eac Total Cost 0 / - - - - - 40 / 8	ch) / (\$ M ) 7 0.000 7 - 7 - 7 - 7 - 7 - 7 -	Comp  Qty (Ea Total Cos  C  -  -  -  -  -  -  -  -  -  -  -  -	plete ach) / st (\$ M) 1 / 0.000  / - / - / - / - / - / - / - / -	Qty (E Total Cost ) (1	/ (\$ / 0.0 / 0.0 / / / / / / / / / / / / / /
All Prio FY 201 FY 201 FY 201 FY 201 FY 201 FY 201	Years 2 3 4 5 5 6 7 8	Cost				C	Oty (Each) al Cost (\$ 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0	.000 .000 .000 .000 .000 .000 .000 .00	Qty (Ea Total Cost 0 - - - - -	(ch) / (\$ M) / (0.000 / - / - / - / - / - / - / - / - / -	Qty (Ea Total Cost	ch) / t (\$ M) / 0.000 / - / - / - / - / - / - / - / - / -	Basing Control of the	e ch) / (\$ M ) 0.000 / - / - / - / - / - / - / - / - / -	OCO  Qty (Each) / Total Cost (\$ M	Tu Qty () Total C	(Each) / (Each) / (Oost (\$ M) ) 0 / 0.000 - / - / / - / / - / - /	Qty ( Total C	(Each) / Cost (\$ M) 0 / 0.000 - / - / - / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / - / / / - / / - / - / / - /	Qty Total	(Each) / (Cost (\$ / 0 / 0.0 cost (\$ / 0 / 0.0 co	71) Tot	Oty (Each Cost (	n) / (\$\$ M ) 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Qty (Eac 0 )  40 / 8	ch) / (\$ M ) 0.000 / - / - / - / - / - / - / - / - / - / -	Comp  Qty (Ea Total Cos  C       226 / /	blete ach) / ach() / or (\$M) / 0.000 / - / - / - / - / - / - / - / - / - / -	Qty (E Total Cost ()	/ (476.8
All Prio FY 201 FY 201 FY 201 FY 201 FY 201 FY 201 To Con Total	Years 2 3 4 5 5 6 7 8					C	Oty (Each) al Cost (\$ 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/	.000 .000 .000 .000 .000 .000 .000 .00	Qty (Ea Total Cost 0 - - - - -	(ch) / (\$ M) / 0.000 / - / - / - / - / - / - / - / - / -	Qty (Ea Total Cost) 0	ch) / f (\$ M ) / 0.000 / - / - / - / - / - / - / - / - / -	Bass Qty (Eac Total Cost 0 //	e ch) / (\$ M ) 0.000 / - / - / - / - / - / - / - / - / -	OCO  Qty (Each) / Total Cost (\$ M -	Tu Qty () Total C	(Each) / lost (\$ M ) 0 / 0.000 -	Qty ( Total C	(Each) / lost (8 M ) 0 / 0.000 - / / / / / / / / / / / / / / / / / -	Qty Total	(Each) (Cost (\$ I O / O.C.) -	555	Oty (Each Cost (	n) / (\$\$ M ) 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Qty (Eac 0 )  40 / 8	ch) / (\$ M ) 0.000 / - / - / - / - / - / - / - / - / - / -	Comp Oty (Et Total Cost Total Cost Cost	blete ach) / st (\$M) / 0.000 / - / - / - / - / - / - / - / - / - / -	Qty (E Total Cost ()	/ (476.8
All Prio FY 201 FY 201 FY 201 FY 201 FY 201 FY 201 To Con	Years 2 3 4 4 5 6 6 7 7 3 applete	Sched	FY	2012		Control	Oty (Each) al Cost (\$ 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/	.000 .000 .000 .000 .000 .000 .000 .00	Qty (Ea	(ch) / (\$ M ) / 0.000 / - / - / - / - / - / - / - / - / -	Qty (Ea Total Costs) 0	ch) / ( (\$ M ) / 0.000 / - / - / - / - / - / - / - / - / -	Basis Oty (Eac Total Cost O )	e ch) / (S M) 0.000 / - / - / - / - / - / - / - / - / -	OCO  Oty (Each) / Total Cost (\$ M -	Qty ) Total C	(Each) / (Sost (\$ M )	Qty ( Total C	(Each) / lost (\$ M ) 0 / 0.000 - / - /	Qty Total	(Each), (Cost (%), (O), (O), (O), (O), (O), (O), (O), (O	555 FY 2	Oty (Each Cost (	0) / S M ) 7 5 M ) 7 0.0000	Qty (Eac Total Cost 0 // - - - - - - - - - - - - - - - - - -	ch) / (\$ M ) (0.000 / - / - / - / - / - / - / - / - / -	Comp Oty (Earlier Total Cost) Other Cost of Co	Diete  ach) / st (\$ M)  7 0.000  7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	Qty (E Total Cost Cost Cost Cost Cost Cost Cost Cost	Each) st (\$ 0 / 0.0 /
All Prio FY 201 FY 201 FY 201 FY 201 FY 201 FY 201 To Con Total	Years 2 3 4 5 6 7 3 supplete		FY 2	3	4	Total	Oty (Each)  Oty (Each)  Oty (Each)  Oty (Solution of the content o	0 / M / M / M / M / M / M / M / M / M /	Qty (Ea Total Cost	(ch) / ( (\$ M ) / (0.000 ) / (- (- (- (- (- (- (- (- (- (- (- (- (-	Qty (Ea Total Cost	ch) / ( (\$ M) / (0.000 / - / - / - / - / - / - / - / - / -	Bass	e sh) / (\$ M ) 0.000	OCO  Qty (Each) / Total Cost (\$ M -	Qty (Total C	(Each) / lost (\$ M ) 0 / 0.000 -	2 FY 20	(Each) / lost (\$ M ) 0 / 0.000 - / - / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / - / - / / / / / / / / / / / -	Qtyly Total	(Each), (Cost (\$ / 0 / 0.0 cost (\$ / 0 / 0.0 cos	55 FY 2	Oty (Each Cost (1)	0) / S M ) 7 0.000	Qty (Eac Total Cost 0 / - - - - - - - - - - - - - - - - - - -	ch) / (\$ M ) / (\$ M ) / (0.000 / - / - / - / - / - / - / - / - / -	Comp Oty (Ea Total Cos Oty	Diete ach) / st (8 M) // 0.000 / - / - / - / - / - / - / - / - / - / -	Qty (E Total Cost (C)	Each) st (\$ 0 / 0. / / / 68. / 71. / 79. / 476. 7779.
All Prio FY 201 FY 201 FY 201 FY 201 FY 201 FY 201 To Con Total	Years 2 3 4 4 5 6 6 7 7 3 applete	Sched	FY	_	4 -	Control	Oty (Each) al Cost (\$ 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/	.000 .000 .000 .000 .000 .000 .000 .00	Qty (Ea	(ch) / (\$ M ) / 0.000 / - / - / - / - / - / - / - / - / -	Qty (Ea Total Costs) 0	ch) / ( (\$ M ) / 0.000 / - / - / - / - / - / - / - / - / -	Basis Oty (Eac Total Cost O )	e ch) / (S M) 0.000 / - / - / - / - / - / - / - / - / -	OCO  Oty (Each) / Total Cost (\$ M -	Qty (Total C	(Each) / (Sost (\$ M )	Qty ( Total C	(Each) / lost (\$ M ) 0 / 0.000 - / - /	Qty Total	(Each), (Cost (%), (O), (O), (O), (O), (O), (O), (O), (O	555 FY 2	Oty (Each Cost (1)	)) / (SM) 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Oty (Eac Total Cost Of Total C	Ch) / (\$ M )	Comp Oty (Ea Total Cos Oty	Diete ach) / tt (\$M) 7 0.000 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	Qty (E Total Cost (Cost	Gach) / 0.00 / 0

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Exhibit P-3A, Indiv	idual Modification: P	B 2014 Army				Date: April 2013	
2031A: Aircraft Prod	dget Activity / Budge curement, Army / BA 0 odification Of Aircraft		P-1 Line Item No AZ2200 - Kiowa N			Modification Nomel (Modification Numbe Title): several - Kiowa Wari Programs	r - Modification
Models of Systems	Affected: OH-58D, 0	OH-58F <b>Type</b>	Modification: Ope	rational/Safety	Related RI	T&E PEs:	
Manufacturer Information	on: OH-58F CASUP Long	Lead			·		
manaraotaror milorimati							
Manufacturer Name: Var	ious			Manufacturer Location: Va	arious		
				Manufacturer Location: Va			
Manufacturer Name: Var		FY 2013	FY 2014			FY 2017	FY 2018
Manufacturer Name: Var Administrative Leadtime	(in Months): 12	<b>FY 2013</b> May 2013	FY 2014 May 2014	Production Leadtime (in M	Months): 21	<b>FY 2017</b> May 2017	<b>FY 2018</b> May 2018

Installation: OH-58F CASUP Long Lead			Method of Im	plementation	ı: Various			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)			
All Prior Years	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000
FY 2012	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	0 / 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	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -

#### Installation Schedule

mota	iation	ocnea	uic																												
			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	015			FY 2	016			FY 2	017			FY 20	018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
In	-	-	-	-	-	-	-	5	7	7	8	8	8	8	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	166	364
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	7	7	8	8	8	8	9	9	9	10	10	10	10	10	236	364

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Exhibit P-3A, Indivi	dual Modific	ation: PB	2014 Army							Date: A	pril 2013		
Appropriation / Bud 2031A: Aircraft Proc Aircraft / BSA 10: Md	urement, Arm	ny / BA 02:			<b>1 Line Item I</b> Z2200 - Kiowa					(Modific Title):	- Kiowa Wa	enclature per - Modific	
<b>Models of Systems</b>	Affected: O	H-58D, OF	I-58F	Type Mod	dification: O	peration	al/Safety		Related RI	DT&E PEs:			
Manufacturer Information	n: OH-58F CAS	SUP Recapita	lization										
Manufacturer Name: Bell	Helicopter Textr	on, Inc				Ma	anufacturer Locatio	n: Amarillo, T	X				
Administrative Leadtime (	in Months): 12					Pro	oduction Leadtime	(in Months): 2	4				
Dates	FY 20°	12	FY 2013	3	FY 2014		FY 2015		FY 2016	F	Y 2017	FY	2018
Contract Dates							May 2015	1	May 2016	Ma	ay 2017	May	y 2018
Delivery Dates							May 2017	1	May 2018	Ma	ay 2019	May	y 2020
Installation: OH-58F CA	SUP Recapitaliz	ation		Method of I	Implementation				Installation N	lame:		T _	
		Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	4 FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost		Qty (Each) / Total Cost (\$ M	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M	Qty (Each) / Total Cost (\$ M)	Qty (Each) Total Cost (\$		Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )
All Prior Years		0 / 0.00	0 / 0.000	0 / 0.00	0 / 0.000	- /	- 0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000
FY 2012		0 / 0.00		- / -	,	- /		- / -	- / -	- / -	- / -	- / -	- / -
FY 2013		0 / 0.00		- / -		- /	-	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014 FY 2015		0 / 0.00		- / -	- / -	- /		- / -	- / -	- / -	- / -	- / -	- / -
FY 2016		0 / 0.00		- / -	- / -	- /		- / -	- / -	- / -	- / -	- / -	- / -
FY 2017		0 / 0.00		- / -		- /		- / -	- / -	- / -	- / -	- / -	- / -
FY 2018		0 / 0.00	0 - / -	- / -	- / -	- /	/ -	- / -	- / -	- / -	- / -	- / -	- / -
To Complete		0 / 0.00	0 - / -	- / -	- / -	- /	/ -	- / -	- / -	- / -	- / -	- / -	- / -
Total		0 / 0.00	- / -	- / -	- / -	- /	/ -	- / -	- / -	- / -	- / -	- / -	- / -
Installation Schedule													
FY	2012	FY 20	13	FY 2014	4	FY 201	5	FY 2016	F	Y 2017	FY	<b>/ 2018</b>	

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P-1 Line #22

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Exhibit P-3A, Individual Modification: PB 2014 Army																Date: A	pril 201	3					
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of Aircraft								P-1 Line Item Nomenclature: AZ2200 - Kiowa Mods Warrior							Modification Nomenclature (Modification Number - Modification Title): several - Kiowa Warrior Modification Programs								
Models of Systems Affected: OH-58D, OH-58F Type								Type M	rpe Modification: Operational/Safety Related RD							DT&E PEs:	T&E PEs:						
Manufactu	urer Info	rmatio	n: War	time R	eplacen	nent A	ircraft (	WRA)							'								
Manufactur	rer Nam	e: Bell	Helicop	ter Tex	tron Inc	orpora	ted and	Corpus	Christi Arm	y Depo	ot (CCAD)	Manı	ıfacturer Loc	ation	n: Amarillo, TX	and Corpus	Christi, TX						
Administrat	tive Lea	dtime (	in Mont	ths): 4								Prod	uction Leadti	me (i	in Months): 30	)							
D	Dates			FY 2	012	12 FY 2013			FY 2014			FY 2015		I	FY 2016	FY 2017			FY :		2018		
Contract Da	ates			Oct 2	2010																		
Delivery Da	ates			Apr 2	2013																		
Installation	<b>n:</b> Wartii	me Rep	olacem	ent Airc	craft (WF	RA)				ry Inter			e/Firm Fixed Request (MI FY 2014	PR)		Installation N	lame:			То			
Installation		me Rep	olacem	ent Airc	<b>Prio</b> Qty	r Year	Qty (	<b>2012</b> (Each) /	FY 2013  Qty (Each)	ry Inter	FY 2014 Base Qty (Each) /	FY 2014 OCO  Qty (Each) /	FY 2014 Total	PR)	FY 2015  Qty (Each) /	<b>FY 2016</b> Qty (Each) /	<b>FY 2017</b> Qty (Each) /	FY 20°	:h) /	Comp Qty (Ea	lete	<b>Tota</b> Qty (Eac	ch)
Installation	n Cost	me Rep	olacem	ent Airc	<b>Prio</b> Qty	r <b>Year</b> (Each) /	Qty ( // ) Total C	Each) / ost (\$ M )	FY 201:  Qty (Each) Total Cost (\$	Ty Inter  3  / ( M) Tot	rdepartment FY 2014 Base Otty (Each) / stal Cost (\$ M )	FY 2014 OCO Oty (Each) / Total Cost (\$ M	FY 2014 Total  Qty (Each) Total Cost (\$	PR)	FY 2015  Qty (Each) / Total Cost (\$ M )	FY 2016  Qty (Each) /  Total Cost (\$ M )	FY 2017  Qty (Each) /  Total Cost (\$ M )	Qty (Each Total Cost (	h) / (\$ M )	Qty (Ear Total Cost	ch) /	Qty (Eac Total Cost	ch)
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LI AZ2200 - Kiowa Mods Warrior Army

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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

AA0712 - Network And Mission Plan

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements: 0604201A

MDAP/MAIS Code(s):

	Prior			FY 2014	1 1 2017	FY 2014					10	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	118.432	190.789	152.569	-	152.569	182.009	186.239	185.675	172.847	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	118.432	190.789	152.569	-	152.569	182.009	186.239	185.675	172.847	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	118.432	190.789	152.569	-	152.569	182.009	186.239	185.675	172.847	Continuing	Continuing
	(The following	g Resource Sum	mary rows are fo	or informational p	ourposes only. Ti	he corresponding	budget requests	s are documente	d elsewhere.)		•	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	-	82.089	101.430	-	-	-	819.318	1,096.305	135.822	-	Continuing	Continuing

EV 2014 | EV 2014 | EV 2014

#### **Description:**

(Units in Thousands)

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), the Degraded Visual Environment (DVE) System, previously referred to as the Helicopter Terrain Avoidance and Warning System (HTAWS), 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/F, CH-47D/F, OH-58D/F Kiowa Warrior, UH-60A/L/M/Q, HH-60L/M, 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, OH-58D, CH-47F, and UH/HH-60M.

The ADEC is an Army Aviation program to develop, integrate, test, and field specific capabilities needed at the Aviation unit level to implement and support improvements within aviation maintenance. operations, safety and training. ADEC will standardize data and information formats, consolidate disconnected and disparate systems containing redundant data and requiring duplicate data entry, and provide a comprehensive and fully integrated automated information system. ADEC provides a common and interoperable capability required to implement Condition Based Maintenance. Military Flight Operations Quality Assurance, and Platform Maintenance Environment processes.

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FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Date: April 2013 Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

AA0712 - Network And Mission Plan

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

**Program Elements for Code B Items:** 

Other Related Program Elements: 0604201A

#### MDAP/MAIS Code(s):

The ACN is the hardware and software which provides the digital logbook functionality, technical manuals and aircraft ground station software that will reside on the laptop computer to support maintenance activity within aviation units. Procurement is to support training and fielding efforts.

The DVE system, previously referred to as the Helicopter Terrain Avoidance and Warning System (HTAWS), is required to reduce personnel and rotocraft losses while conducting both tactical and training missions in environments that restrict or severely reduce the aircrews visibility due to atmospheric obscurants. The DVE system will improve safety, reduce risk and add flexibility to aviation units by enhancing situational awareness through real-time detection and warning of terrain, obstacles and hazards. The DVE System will consist of integrated rotorcraft pilotage augmentation systems; sensor(s); software; software related hardware; and pilot to system interfaces and cueing devices. The DVE system will fuse a synthetic vision avionics backbone with aircraft state data and obscurant penetrating sensor(s) to provide a single rotorcraft capability for ground taxi, hover, takeoff and landing modes of flight. The DVE system will be integrated on CH-47F, AH-64D, OH-58D/F, and HH/UH-60 L/M rotorcraft.

ALE-P will replace the Unit Level Logistics System-Aviation (Enhanced) (ULLS-A[E]) which has transitioned into sustainment and the Unmanned Aviation Systems-Initiative (UAS-I) which currently only provides automated logistics capabilities for the UAS community. ALE-P will provide an Aviation enterprise capability interface to the Global Combat Support System-Army (GCSS-Army). ALE-P will be a combination of software and hardware that forms a Logistics Management and Decision Support System (DSS). ALE-P will interface with the ACN and the ADEC as an integrated Family of Systems. There is no installation of ALE-P because it consists of loading software on a server which is done by training/fielding teams.

Secondary Distribution  Army Quantity			FY 2012		FY 2013	3	FY 201 Base		FY 201 OCO	-	FY 20 <sup>-</sup> Tota		FY 20	15	FY 20	)16	FY 2	017	FY 2	2018
Army Quantity				-		-		-		-		-		-		-		-		-
Total Ob	ligation Authority		118	.432	19	0.789	1	52.569		-		152.569		182.009		186.239		185.675		172.847
Item Schedule			Р	rior Year	's		FY 2012			FY 2013		FY	2014 Ba	se	FY	2014 O	СО	FY	2014 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
Item Nomenclature*   Exhibits			-	-	-	-	-	118.432	-	-	190.789	-	-	152.569	-	-	-	-	-	152.569
Total Gross/Weapon System Cost					-			118.432			190.789			152.569			-			152.569
Item Sche	dule			FY 2015			FY 2016			FY 2017			FY 2018		To	Comple	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
0000 - Network and Mission Plan	P3A		819.318	-	182.009	1,096.305	-	186.239	135.822	-	185.675	-	-	172.847		Continuing			Continuing	,
Total Gross/Weapon System Cost					182.009			186.239			185.675			172.847		Continuinç	ı		Continuing	

\*Item Nomenclature represents Item Number. DODIC, and Item Name for the P40A and P5: Name for the P48 and P23: Modification Number and Modification Title for the P3A: Item Number and Item Name for the P40A

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

Justification:

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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army	Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of Aircraft	P-1 Line Item Nomenclature: AA0712 - Network And Mission Plan
ID Code (A=Service Ready, B=Not Service Ready) : Program Elements for Code B It	ems: Other Related Program Elements: 0604201A
MDAP/MAIS Code(s):	
FY 2014 Base procurement dollars in the amount of \$25.939 million supports the procurement of AMPS Phase II. AMPS hardware (B-Kits) is being replaced on a 5-year cycle to maintain pace with technology. FY 2015.	upgrades to system software to support aviation fleet modernization programs and support of CAFRS FY 2014 is the third year of the latest cycle, with the next planned purchase of hardware (B-kits) being in
FY 2014 Base procurement dollars in the amount of \$73.848 million supports the procurement of IDM R hardware. These B Kits support production line programs for the AH-64D, CH-47F, HH/UH-60M helicop lethality, and operational tempo by providing a common solution for fast and accurate data-burst communicated by the first providing the flexibility to adapt to technology change.	
FY 2014 Base procurement dollars in the amount of \$29.656 million supports the procurement, fielding, of the Army with the required information to conduct analyses and make decisions in the areas of maintenance support costs and to improve operational readiness.	
FY 2014 Base procurement dollars in the amount of \$7.672 million supports the procurement, fielding, a actions and ensure efficient fleet management to improve operation readiness.	nd training of ACN systems for Army Rotary Wing units. This program will enable At-Aircraft maintenanc
FY 2014 Base procurement dollars in the amount of \$15.454 million supports the procurement, training, capability to receive, process, analyze, and transmit data from Quality Control, Product Control, Tech St Systems such as GCSS-Army.	
All COMPO 1 Active	
In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this defense missions, domestic emergency responses and providing military support to civil authorities.	item is necessary for use by the active and reserve components of the Armed Forces for homeland

LI AA0712 - Network And Mission Plan Page 3 of 14 P-1 Line #23

Army

Appropriation / Budget Activity 2031A: Aircraft Procurement, Arm Aircraft / BSA 10: Modification Of	ny / BA 02: <b>I</b>			<b>1 Line Item</b> I .0712 - Netw					(Modification):		enclature per - Modific d Mission Pl	
Models of Systems Affected: All OH-58D/F, UH-60A/L/M/Q, HH-60		H-47D/F,		<b>lification:</b> Rability, Comp			dization,	Related RD	OT&E PEs:			
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	118.432	190.789	152.569	-	152.569	182.009	186.239	185.675	172.847	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	118.432	190.789	152.569	-	152.569	182.009	186.239	185.675	172.847	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	_	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	118.432	190.789	152.569	-	152.569	182.009	186.239	185.675	172.847	Continuing	Continuing

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

101.430

82.089

Exhibit P-3A, Individual Modification: PB 2014 Army

#### **Description:**

Initial Spares (\$ in Millions)

Gross/Weapon System Unit Cost

(Units in Thousands)

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), the Degraded Visual Environment (DVE) System, previously referred to as the Helicopter Terrain Avoidance and Warning System (HTAWS), 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/F, CH-47D/F, OH-58D/F Kiowa Warrior, UH-60A/L/M/Q, HH-60L/M, 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, OH-58D, CH-47F, and UH/HH-60M.

The ADEC is an Army Aviation program to develop, integrate, test, and field specific capabilities needed at the Aviation unit level to implement and support improvements within aviation maintenance, operations, safety and training. ADEC will standardize data and information formats, consolidate disconnected and disparate systems containing redundant data and requiring duplicate data entry, and provide a comprehensive and fully integrated automated information system. ADEC provides a common and interoperable capability required to implement Condition Based Maintenance, Military Flight Operations Quality Assurance, and Platform Maintenance Environment processes.

UNCLASSIFIED

819.318

1,096.305

135.822

Continuing

Continuing

Date: April 2013

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

<b>Exhibit P-3A</b> , <b>Individual Modification</b> : PB 2014 Army				Date: April 2013
Appropriation / Budget Activity / Budget Sub Activit 2031A: Aircraft Procurement, Army / BA 02: Modification Aircraft / BSA 10: Modification Of Aircraft	-	P-1 Line Item Nomenclature: AA0712 - Network And Mission Plan		Modification Nomenclature (Modification Number - Modification Title): 0000 - Network and Mission Plan
Models of Systems Affected: AH-64D/F, CH-47D/F, OH-58D/F, UH-60A/I/M/Q, HH-60I/M, UAS		Modification: Rationalization, Standardization,	Related RDT	&E PEs:

The ACN is the hardware and software which provides the digital logbook functionality, technical manuals and aircraft ground station software that will reside on the laptop computer to support maintenance activity within aviation units. Procurement is to support training and fielding efforts.

The DVE system, previously referred to as the Helicopter Terrain Avoidance and Warning System (HTAWS), is required to reduce personnel and rotocraft losses while conducting both tactical and training missions in environments that restrict or severely reduce the aircrews visibility due to atmospheric obscurants. The DVE system will improve safety, reduce risk and add flexibility to aviation units by enhancing situational awareness through real-time detection and warning of terrain, obstacles and hazards. The DVE System will consist of integrated rotocraft pilotage augmentation systems; sensor(s); software; software related hardware; and pilot to system interfaces and cueing devices. The DVE system will fuse a synthetic vision avionics backbone with aircraft state data and obscurant penetrating sensor(s) to provide a single rotocraft capability for ground taxi, hover, takeoff and landing modes of flight. The DVE system will be integrated on CH-47F, AH-64D, OH-58D/F, and HH/UH-60 L/M rotocraft.

ALE-P will replace the Unit Level Logistics System-Aviation (Enhanced) (ULLS-A[E]) which has transitioned into sustainment and the Unmanned Aviation Systems-Initiative (UAS-I) which currently only provides automated logistics capabilities for the UAS community. ALE-P will provide an Aviation enterprise capability interface to the Global Combat Support System-Army (GCSS-Army). ALE-P will be a combination of software and hardware that forms a Logistics Management and Decision Support System (DSS). ALE-P will interface with the ACN and the ADEC as an integrated Family of Systems. There is no installation of ALE-P because it consists of loading software on a server which is done by training/fielding teams.

FY 2014 Base procurement dollars in the amount of \$25.939 million supports the procurement of AMPS upgrades to system software to support aviation fleet modernization programs and support of CAFRS Phase II. AMPS hardware (B-Kits) is being replaced on a 5-year cycle to maintain pace with technology. FY 2014 is the third year of the latest cycle, with the next planned purchase of hardware (B-kits) being in FY 2015.

FY 2014 Base procurement dollars in the amount of \$73.848 million supports the procurement of IDM Redesign 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, CH-47F, HH/UH-60M helicopters and OH-58D Safety Enhancement Program. 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 2014 Base procurement dollars in the amount of \$29.656 million supports the procurement, fielding, and training of ADEC systems for Army rotary wing units. This program will provide users at all levels of the Army with the required information to conduct analyses and make decisions in the areas of maintenance, operations, safety, and training to ensure efficient fleet management, to reduce operations and support costs and to improve operational readiness.

FY 2014 Base procurement dollars in the amount of \$7.672 million supports the procurement, fielding, and training of ACN systems for Army Rotary Wing units. This program will enable At-Aircraft maintenance actions and ensure efficient fleet management to improve operation readiness.

FY 2014 Base procurement dollars in the amount of \$15.454 million supports the procurement, training, and fielding of ALE-P systems for Army Rotary Wing units. This program will provide users with the capability to receive, process, analyze, and transmit data from Quality Control, Product Control, Tech Supply, Backshop, and Phase Module activities, and provide the Aviation interface to Army Logistics Systems such as GCSS-Army.

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Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0712 - Network And Mission Plan

Date: April 2013

Modification Nomenclature

(Modification Number - Modification

Title):

0000 - Network and Mission Plan

Models of Systems Affected: AH-64D/F, CH-47D/F, OH-58D/F, UH-60A/L/M/Q, HH-60L/M, UAS

**Type Modification:** Rationalization, Standardization, Interoperability, Compatibility, Simplification

Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) / Total Cost (\$ M)	Qty (Each) /	Qty (Each) /	Qty (Each) / Total Cost (\$ M)	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /
Procurement	Total Good (# M/)	rotar coot (# Mr)	Total Cool (\$ III )	Total Cool (# W/)	rotar coot (# III )	Total Cool (# III )	Total Goot (# W )	Total Goot (# III )	rotar coot (\$ m )	rotar coot (# III )	Total Cool (# III )	Total cost (# III )
Aviation Mission Planning System (AMPS)												
B Kits												
Recurring												_
Kit Quantity- (Computer)	0 / 0.000	1,180 / 11.587	1,020 / 10.127	- / -	- / -	- / -	30 / 0.356	30 / 0.363	1,334 / 14.357	1,334 / 14.615	- / -	4,928 / 51.405
ECPs	0 / 0.000	- / 14.893	- / 12.950	- / 14.682	- / -	- / 14.682	- /14.710	- / 15.898	- / 15.354	- / 14.766	- / -	- / 103.253
Systems Engineering	0 / 0.000	- / 1.237	- / 1.258	- /1.042	- / -	- /1.042	- / 1.060	- /1.080	- / 1.099	- /1.119	- / -	- /7.895
System Test and Eval	0 / 0.000	- / 1.829	- / 1.789	- / 1.841	- / -	- /1.841	- / 1.853	- / 1.908	- /1.920	- / 1.977	- / -	- / 13.117
Fielding/Training	0 / 0.000	- /7.086	- / 6.965	- /7.209	- / -	- /7.209	- /7.429	- /7.449	- /7.663	- / 6.808	- / -	- / 50.609
Other- PM Admin	0 / 0.000	- / 1.596	- / 1.363	- / 1.165	- / -	- / 1.165	- / 1.290	- / 1.215	- / 1.683	- / 1.547	- / -	- / 9.859
Subtotal Recurring	0 / 0.000	1,180 / 38.228	1,020 / 34.452	- /25.939	- / -	- /25.939	30 / 26.698	30 / 27.913	1,334 / 42.076	1,334 / 40.832	- / -	4,928 / 236.138
Total, Aviation Mission Planning System (AMPS)	0/0.000	1,180 / 38.228	1,020 / 34.452	- /25.939	- / -	- /25.939	30 / 26.698	30 / 27.913	1,334 / 42.076	1,334 / 40.832	- / -	4,928 / 236.138
Aviation Data Exploitation Capability (ADEC)	'											
B Kits												_
Recurring												_
Kit Quantity- ADEC Bn Sets	0 / 0.000	- / -	32 / 11.806	43 / 14.587	- / -	43 / 14.587	43 / 15.381	42 / 15.655	27 / 11.214	27 / 11.405	- / -	214 / 80.048
ECP (SW)	0 / 0.000	- / -	- /2.805	- /6.768	- / -	- /6.768	- / 5.566	- /7.660	- / 10.207	- / 5.346	- / -	- / 38.352
Data	0 / 0.000	- / -	- / 0.498	- / 0.507	- / -	- / 0.507	- / 0.515	- / 0.524	- / 0.533	- / 0.542	- / -	- /3.119
Systems Engineering	0 / 0.000	- / -	- / 0.642	- / -	- / -	- / -	- / 1.507	- / 1.324	- /1.348	- /1.372	- / -	- / 6.193
System Test & Eval	0 / 0.000	- / -	- / 0.365	- / 0.457	- / -	- / 0.457	- / 0.465	- / 0.473	- / 0.481	- / 0.282	- / -	- / 2.523
Fielding/Training	0 / 0.000	- / -	- / 5.330	- / 6.765	- / -	- / 6.765	- /8.226	- / 9.940	- / 0.290	- / -	- / -	- / 30.551
Other- PM Admin	0 / 0.000	- / -	- / 0.830	- / 0.572	- / -	- / 0.572	- / 0.812	- / 0.902	- / 0.802	- / 0.674	- / -	- /4.592
Subtotal Recurring	0 / 0.000	- / -	32 / 22.276	43 / 29.656	- / -	43 / 29.656	43 / 32.472	42 / 36.478	27 / 24.875	27 / 19.621	- / -	214 / 165.378
Total, Aviation Data Exploitation Capability (ADEC)	0 / 0.000	- / -	32 / 22.276	43 / 29.656	- / -	43 / 29.656	43 / 32.472	42 / 36.478	27 / 24.875	27 / 19.621	- / -	214 / 165.378
Improved Data Modem (IDM)				1								•
B Kits												
Recurring												
Kit Quantity- IDM	0 / 0.000	412 / 9.776	320 / 7.719	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	732 / 17.495
Kit Quantity- IDM OSA	0 / 0.000	70 / 1.890	509 / 13.963	578 / 33.419	- / -	578 / 33.419	120 / 7.070	232 / 13.801	358 / 21.302	343 / 20.625	- / -	2,210 / 112.070
Aircraft Integration	0 / 0.000	- / 47.457	- / 75.199	- /20.800	- / -	- /20.800	- / 37.609	- / 34.475	- / 38.476	- / 37.501	- / -	- / 291.517
ECP (SW)	0 / 0.000	- /8.876	- / 6.894	- /7.647	- / -	- /7.647	- / 10.815	- /6.793	- / 11.230	- /7.058	- / -	- / 59.313

LI AA0712 - Network And Mission Plan Army

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Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0712 - Network And Mission Plan

Date: April 2013

**Modification Nomenclature** 

(Modification Number - Modification

Title):

0000 - Network and Mission Plan

Models of Systems Affected: AH-64D/F, CH-47D/F, OH-58D/F, UH-60A/L/M/Q, HH-60L/M, UAS

Type Modification: Rationalization, Standardization, Interoperability, Compatibility, Simplification

Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (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 Engineering	0 / 0.000	- / 1.921	- /2.306	- /1.771	- / -	- /1.771	- / 1.802	- / 1.834	- / 1.867	- / 1.900	- / -	- / 13.40
System Test & Eval	0 / 0.000	- /5.782	- / 5.905	- / 6.533	- / -	- / 6.533	- / 6.650	- / 6.769	- / 6.891	- /7.014	- / -	- / 45.54
Fielding/Training	0 / 0.000	- / 0.517	- / 0.532	- / 0.551	- / -	- / 0.551	- / 0.541	- / 0.549	- / 0.557	- / 0.569	- / -	- / 3.81
Other- PM Admin	0 / 0.000	- /2.740	- /2.730	- / 3.127	- / -	- / 3.127	- /2.689	- / 2.673	- /3.032	- / 3.237	- / -	- / 20.22
Subtotal Recurring	0 / 0.000	482 / 78.959	829 / 115.248	578 / 73.848	- / -	578 / 73.848	120 / 67.176	232 / 66.894	358 / 83.355	343 / 77.904	- / -	2,942 / 563.38
Total, Improved Data Modem (IDM)	0 / 0.000	482 / 78.959	829 / 115.248	578 / 73.848	- / -	578 / 73.848	120 / 67.176	232 / 66.894	358 / 83.355	343 / 77.904	- / -	2,942 / 563.38
Aircraft Notebook (ACN)												
B Kits												
Recurring												
ECP (SW)	0 / 0.000	- / -	- / 2.675	- / 0.600	- / -	- / 0.600	- /1.112	- / 1.132	- / 1.383	- / 1.642	- / -	- / 8.54
Data	0 / 0.000	- / -	- / 0.236	- /0.111	- / -	- /0.111	- / 0.199	- / 0.074	- / 0.092	- / 0.227	- / -	- / 0.93
Systems Engineering	0 / 0.000	- / -	- / 0.755	- / -	- / -	- / -	- / 1.093	- / 1.113	- / 1.132	- / 1.153	- / -	- / 5.24
System Test	0 / 0.000	- / -	- / 0.241	- / 0.052	- / -	- / 0.052	- / 0.053	- / 0.054	- / 0.055	- / 0.056	- / -	- / 0.51
Fielding/Training	0 / 0.000	- /1.208	- /4.406	- / 6.649	- / -	- / 6.649	- / 9.039	- / 10.073	- / 0.410	- / 0.553	- / -	- / 32.33
Other- PM Admin	0 / 0.000	- / 0.037	- / 0.500	- / 0.260	- / -	- / 0.260	- / 0.426	- / 0.452	- / 0.243	- / 0.261	- / -	- / 2.17
Subtotal Recurring	0 / 0.000	- /1.245	- /8.813	- /7.672	- / -	- /7.672	- /11.922	- /12.898	- /3.315	- /3.892	- / -	- /49.75
Total, Aircraft Notebook (ACN)	0 / 0.000	- /1.245	- /8.813	- /7.672	- / -	- /7.672	- /11.922	- /12.898	- /3.315	- /3.892	- / -	- /49.75
Degraded Visual Environments												
B Kits												
Recurring												•
Kit Quantity- Sensor	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 17.869	- / 14.992	- /2.415	- / -	- / -	- / 35.27
Fielding/Training	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /3.805	- / 6.398	- / 5.879	- / 5.726	- / -	- /21.80
PM Admin	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.506	- / 0.509	- / 0.223	- / 0.201	- / -	- / 1.43
Subtotal Recurring	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /22.180	- /21.899	- /8.517	- /5.927	- / -	- / 58.52
Total, Degraded Visual Environments	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- /22.180	- /21.899	- /8.517	- /5.927	- / -	- /58.52
Aviation Logistics Enterprise-Platform (ALE-P)												
B Kits												
Recurring												
Kit Quantity (Work station)	0 / 0.000	- / -	- / -	1,093 / 4.538	- / -	1,093 / 4.538	1,355 / 3.346	490 / 1.740	772 / 3.103	544 / 2.771	- / -	4,254 / 15.49
Kit Quantity (Server)	0 / 0.000	- / -	- / -	70 / 1.606	- / -	70 / 1.606	116 / 2.595	111 / 2.620	104 / 2.678	50 / 1.232	- / -	451 / 10.73
Kit Quantity (Port)	0 / 0.000	- / -	- / -	- / 0.233	- / -	- / 0.233	- / 0.239	- / 0.228	- / 0.084	- / 0.162	- / -	- / 0.94

LI AA0712 - Network And Mission Plan Army

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Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0712 - Network And Mission Plan

Date: April 2013

Modification Nomenclature

(Modification Number - Modification

Title):

0000 - Network and Mission Plan

Models of Systems Affected: AH-64D/F, CH-47D/F, OH-58D/F, UH-60A/L/M/Q, HH-60L/M, UAS

**Type Modification:** Rationalization, Standardization, Interoperability, Compatibility, Simplification

Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M									
ECPs	0 / 0.000	- / -	- / -	- / 0.682	- / -	- / 0.682	- / 1.749	- / 3.458	- / 3.521	- / 13.732	- / -	- / 23.142
Equipment	0 / 0.000	- / -	- / 10.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /10.000
Systems Engineering	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 1.052	- / 1.197	- / 1.218	- / 1.240	- / -	- /4.707
Data	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / 0.084	- / 0.086	- / 0.351	- / 0.358	- / -	- / 0.879
System Test & Eval	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.041	- / 1.060	- / -	- / 2.101
PM Admin	0 / 0.000	- / -	- / -	- / 0.450	- / -	- / 0.450	- / 0.474	- / 0.466	- / 0.577	- / 0.616	- / -	- / 2.583
Subtotal Recurring	0 / 0.000	- / -	- /10.000	1,163 / 7.509	- / -	1,163 / 7.509	1,471 / 9.539	601 / 9.795	876 / 12.573	594 / 21.171	- / -	4,705 / 70.587
Non-Recurring			-									
Aircraft Integration	0 / 0.000	- / -	- / -	- / 0.098	- / -	- / 0.098	- / -	- / -	- / -	- / -	- / -	- / 0.098
Fielding	0 / 0.000	- / -	- / -	- /7.847	- / -	- /7.847	- / 12.022	- / 10.362	- / 10.964	- / 3.500	- / -	- / 44.695
Subtotal Non-Recurring	0/0.000	- / -	- / -	- /7.945	- / -	- /7.945	- /12.022	- /10.362	- /10.964	- /3.500	- / -	- /44.793
Total, Aviation Logistics Enterprise-Platform (ALE-P)	0/0.000	- / -	- /10.000	1,163 / 15.454	- / -	1,163 / 15.454	1,471 / 21.561	601 / 20.157	876 / 23.537	594 / 24.671	- / -	4,705 / 115.380
Total Procurement, All Modifications	0/0.000	1,662 / 118.432	1,881 / 190.789	1,784 / 152.569	- / -	1,784 / 152.569	1,664 / 182.009	905 / 186.239	2,595 / 185.675	2,298 / 172.847	- / -	12,789 1,188.560
Total Procurement and Support	0.000	118.432	190.789	152.569	-	152.569	182.009	186.239	185.675	172.847	-	1,188.560
Aviation Mission Planning System (AMPS) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Aviation Data Exploitation Capability (ADEC) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Improved Data Modem (IDM) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Aircraft Notebook (ACN) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Degraded Visual Environments Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Aviation Logistics Enterprise-Platform (ALE-P) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total Cost (Procurement + Support + Installation)	0.000	118.432	190.789	152.569	-	152.569	182.009	186.239	185.675	172.847	-	1,188.560

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Exh	ibit P	-3A, I	ndivi	dual	Modi	ficati	on: PE	3 2014	Army								Date	: Apı	ril 2013		
203		rcraft	Proc	urem	ent, A	rmy /	BA 02		<b>Activity</b> ification		<b>Line Item</b> 0712 - Netw		<b>lature:</b> Mission Plan				(Mod Title)	difica: ):		enclature per - Modifion d Mission P	
	dels of 58D/F								7D/F,	• •			ation, Standa Simplification		n,	Related R	DT&E P	Es:			
Man	ufactur	er Info	rmatio	n: lm	roved	Data I	Modem	(IDM)													
Manı	ufacture	r Nam	e: Sym	etrics	ndustr	es, LL	С					Mar	nufacturer Loca	tion: Mell	orne, F	·L					
Adm	inistrativ	e Lea	dtime (	in Mor	ths):							Pro	duction Leadtin	ne (in Mo	nths):						
	Da	tes			FY	2012			FY 2013		FY 2014		FY 2015			FY 2016		FY	2017	FY	<sup>'</sup> 2018
Cont	ract Dat	es																			
Deliv	ery Dat	es																			
Insta	ıllation:	Impro	ved Da	ata Mo	dem (II	OM)				Method of In	nplementatio	n: Not Applic	cable			Installation	Name:				
							ior Yea	rs F	Y 2012	FY 2013	FY 2014 Base	FY 2014 OCO		FY 2	015	FY 2016	FY 201	7	FY 2018	To Complete	Total
Insta	Illation	Cost					Qty (Each)		y (Each) /	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each)		Qty (E		Qty (Each) / Total Cost (\$ M)	Qty (Each		Qty (Each) /	Qty (Each) / Total Cost (\$ M)	Qty (Each) /
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FY 20	17						0 / 0.0	000	- / -	- / -	- / -	- / -	/ -	-	/ - / -	- / -	- /	-	- / -	- / -	- / -
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FY 20 FY 20 FY 20 To Co	17 18 mplete	Sched		2012			0 / 0.0 0 / 0.1 0 / 0.1	000	- / - - / - - / -	- / - - / - - / -	- / - - / - - / -	- / · · · · · · · · · · · · · · · · · ·	-	-	-     -	- / - - / - - / -	- / - / - /		- / - - / - - / - - / -	- / - - / - - / -	- / - - / - - / -
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Exh	ibit P-	3A, I	ndivi	dual	Modi	ficati	on: PE	3 20	14 Arn	ny														ate:	: Apr	il 201	3				
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	<b>lels of</b> 58D/F								47D/F		Type I								dization	,	Rela	ted I	RDT&	E PE	Es:						
Manu	ıfacture	r Info	rmatic	n: Air	craft N	otebo	ok (ACN	۷)																							
Manu	ıfactureı	· Name	e: AMF	RDEC :	Softwa	re Engi	neering	Dire	ctorate							Manut	acture	r Location	n: Redst	one A	rsena	, AL									
Admi	nistrativ	e Lead	dtime (	in Mor	ths):											Produ	ction L	eadtime	(in Mont	hs):											
	Dat	es			FY	2012			FY 2	2013			FY	2014			FY	2015			FY 20	16			FY	2017			FY	2018	
Contr	ract Date	es																													
Deliv	ery Date	es																													
Insta	llation:	Aircra	ıft Note	book (	ACN)						Method	of Im	pleme	ntation	ı: Not A	oplicat	ole				Instal	lation	n Name								
				<u> </u>		Pr	ior Yea	rs	FY 201		FY 20		FY 2 Ba	2014	FY 2	2014 CO	FY	2014 otal	FY 20	15	FY	2016	FY	2017	7	FY 20	18	To		To	otal
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Exh	bit P-	3A, I	ndivi	dual	Modi	ficati	on: Pl	B 20	14 Arm	ıy														Date	: Ap	ril 201	13				
203		craft	Proc	ureme	ent, A	rmy /	BA 02		<b>b Activ</b> odificat							enclat nd Mi		Plan						(Mod Title)	lifica ):	tion N	lumb	enclat er - M	odific		
	els of 58D/F								47D/F,		Type I							tandar cation	dizatio	n,	Re	lated	RDT	&E P	Es:						
Manı	facture	er Info	rmatic	n: Deç	graded	Visua	l Envir	onme	nts	'																					
Manu	facture	r Name	e: TBD	ı												Manut	acture	er Locati	on: TBD	)											
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Exhi	ibit P-	3A, I	ndiv	dual	Modi	ficati	on: Pl	B 20 <sup>-</sup>	14 Arn	ny													Dat	e: Ap	ril 2013	3				
2031		craft	Proc	urem	ent, A	rmy /	BA 02		b Action						<b>Nome</b> ork An			ı Plan					(Mo	difica e):	tion N tion No etwork	umb	er - M	odifica		
	els of 58D/F								47D/F		Type I							tandard cation	lization	,	Rela	ed R	DT&E F	PEs:						
Manu	facture	r Info	rmatio	n: Avi	ation l	ogisti	cs Ente	erpris	e-Platfo	orm (	ALE-P)																			
Manu	facturer	Name	e: TBD	)												Manuf	acture	er Locatio	n: TBD											
Admii	nistrativ	e Lead	dtime (	in Mor	ths):											Produc	ction L	eadtime	(in Mont	hs):										
	Dat	es			FY	2012			FY 2	2013			FY	2014			FY 2	2015			FY 20	6		FY	2017			FY	2018	
Contr	act Date	es																												
Delive	ery Date	es																												
		Aviati	on Log	jistics I	nterpr	ise-Pla	itform (A	ALE-P	')		Method	of Im	pleme	ntation	: Not Ap	pplicab	le				Instal	ation I	Name:							
Insta	llation:									_			-										1				To			
Insta	llation:					Pr	ior Yea	ars	FY 201	12	FY 20	13	FY 2 Ba		FY 2 OC			2014 otal	FY 20	15	FY :	2016	FY 20	17	FY 201	18	Comp		To	otal
	llation:					C	rior Yea Qty (Each) al Cost (\$	) /	FY 201  Qty (Each	n) /	FY 20 Qty (Eac Total Cost	ch) /		se ach) /		ach) /	<b>T</b> Qty		FY 20 Qty (Eac Total Cost	:h) /	Qty (F	2016 (ach) / st (\$ M )	FY 20  Qty (Eac	h) /	FY 201  Qty (Eacl	:h) /		olete ach)/	Qty (E	Each) /
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LI AA0712 - Network And Mission Plan Army

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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

Prior

AA0723 - Comms. Nav Surveillance

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements: 0604201A

MDAP/MAIS Code(s):

	1 1101			1 1 2017	_	1 1 2017					10	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	56	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	-	117.855	133.191	92.779	-	92.779	166.082	155.377	96.003	110.888	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	117.855	133.191	92.779	-	92.779	166.082	155.377	96.003	110.888	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	117.855	133.191	92.779	-	92.779	166.082	155.377	96.003	110.888	Continuing	Continuing
	(The following	g Resource Sum	mary rows are fo	r informational p	urposes only. Ti	he corresponding	budget request	s are documente	ed elsewhere.)		•	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	-	-	2,378.411	-	-	-	-	-	-	-	Continuing	Continuing

EV 2014 | FY 2014 | EV 2014

#### **Description:**

(Units in Thousands)

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 Nonbussed Utility and Cargo helicopters. The Embedded GPS Inertial Navigation System (EGI) is integrated into the Modernized Cargo, Utility, Attack, Kiowa Warrior, 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, Longbow Apache Block III (AH-64D), Kiowa Warrior (OH-58F) 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 Alternative Communications (Alt Comms) A and B Kits to meet minimum acceptable near term communication requirements due to delays in the Joint Tactical Radio System (JTRS) program. Alt Comms 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 JTRS program integrates, installs and qualifies JTRS hardware and software for production and fielded Army Aviation Aircraft, SOA, and Unmanned Aircraft Systems (UAS) platforms to enable the operation of JTRS certified radios with SINCGARS, Soldier Radio Waveform, and mid-tier wideband networking waveforms, such as the Wideband Networking Waveform or other advanced networking waveforms. This program also provides for the procurement and installation of radio retrofit A-Kits for use on platforms that were fielded without these capabilities. JTRS radios and ancillaries are procured by the Joint Program Executive Office for JTRS and are not part of the JTRS integration effort.

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 $<sup>^{\#}</sup>$  FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: AA0723 - Comms. Nav Surveillance Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

РЗА

Program Elements for Code B Items:

Other Related Program Elements: 0604201A

MDAP/MAIS Code(s):

Seco	ndary Dist	tribution		FY 2012		FY 2013	3	FY 201 Base		FY 201 OCO		FY 20 <sup>-</sup> Tota		FY 20	)15	FY 20	)16	FY 2	017	FY 2	2018
Army	Quantity				-		-		-		-		-		-		-		-		-
	Total Obli	igation Authority		117.	.855	12	5.893		92.779		-		92.779		166.082		155.377		96.003		110.888
ANG	Quantity				-		56		-		-		-		-		-		-		-
	Total Obli	igation Authority			-		7.298		-		-		-		-		-		-		-
	Item Sched	dule		Pı	rior Yea	rs		FY 2012			FY 2013		F١	/ 2014 Ba	ase	FY	2014 O	co	FY	2014 To	tal
Item Nome	enclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost

Navigation, and Surveillance																		[		
Total Gross/Weapon System Cost					-			117.855			133.191			92.779			-			92.779
Item Sche	dule			FY 2015	i		FY 2016	i		FY 2017	ı .		FY 2018	i	To	Comple	ete		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost															
0000 - Communications, Navigation, and Surveillance	P3A		-	-	166.082	-	-	155.377	-	-	96.003	-	-	110.888		Continuing			Continuing	
Total Gross/Weapon					166.082			155.377			96.003			110.888		Continuing	3		Continuing	,

133.191

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P40A

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

#### Justification:

System Cost

0000 - Communications,

FY 2014 Base Procurement dollars in the amount of \$6.931 million supports systems engineering and aircraft integration support for the DGNS CDU/Software Upgrade ECPs.

FY 2014 Base Procurement dollars in the amount of \$70.610 million supports procurement of Alt Comms A-Kits and B-Kits for the AH-64D, CH-47F, UH/HH-60M, LUH, UAS and SOA. An Alt Comms 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 2014 Base Procurement dollars in the amount of \$15.238 million provides for integration and qualification of JTRS certified radios with UH-60M, CH-47F, SOA (MH-47G, MH-60M and MH-6) to support hardware and software and initial interface definition with on-board systems. This effort also procures 80 JTRS installation kits for Shadow UAS platforms and platform engineering services.

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 Modific	ation: PB 2	.014 Army							Date: A	pril 2013		
Appropriation / Budget Activity 2031A: Aircraft Procurement, Arm Aircraft / BSA 10: Modification Of	ny / BA 02: <b>I</b>			-1 Line Item N A0723 - Comr					(Modific Title):	Communica	enclature per - Modific tions, Navig	
Models of Systems Affected: UI MH-60M, CH-47D, CH/MH-47F, C LUH, UAS			Type Mo Capabilit	<b>dification</b> : Ne	ew or Impro	oved Operat	ional	Related RI	DT&E PEs:			
	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013		OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	117.855	133.19	91 92.779	-	92.779	166.082	155.377	96.003	110.888	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	117.855	133.19	91 92.779	-	92.779	166.082	155.377	96.003	110.888	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	117.855	133.19	92.779	-	92.779	166.082	155.377	96.003	110.888	Continuing	Continuing
	(The following	Resource Sum	mary rows are	for informational p	urposes only. Th	ne corresponding	budget request	s are documente	d elsewhere.)		Y	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	2,378.4	- 11	-	-	-	-	-	-	Continuing	Continuing

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

LI AA0723 - Comms, Nav Surveillance

#### 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 Nonbussed Utility and Cargo, Utility, Attack, Kiowa Warrior, and Special Operations Aircraft (SOA) 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, Longbow Apache Block III (AH-64D), Kiowa Warrior (OH-58F) and 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 Alternative Communications (Alt Comms) A and B Kits to meet minimum acceptable near term communication requirements due to delays in the Joint Tactical Radio System (JTRS) program. Alt Comms 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 JTRS program integrates, installs and qualifies JTRS hardware and software for production and fielded Army Aviation Aircraft, SOA, and Unmanned Aircraft Systems (UAS) platforms to enable the operation of JTRS certified radios with SINCGARS. Soldier Radio Waveform, and mid-tier wideband networking waveforms, such as the Wideband Networking Waveform or other advanced networking waveforms. This program also provides for the procurement and installation of radio retrofit A-Kits for use on platforms that were fielded without these capabilities. JTRS radios and ancillaries are procured by Joint Program Executive Office for JTRS and are not part of this JTRS integration effort.

FY 2014 Base Procurement dollars in the amount of \$6.931 million supports systems engineering and aircraft integration support for the DGNS CDU/Software ECP.

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

				_
Exhibit P-3A, Individual Modification: PB 2014 Army				Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity 2031A: Aircraft Procurement, Army / BA 02: Modification Aircraft / BSA 10: Modification Of Aircraft		P-1 Line Item Nomenclature: AA0723 - Comms, Nav Surveillance		Modification Nomenclature (Modification Number - Modification Title): 0000 - Communications, Navigation, and Surveillance
Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH, UAS	<b>Type</b> Capal	Modification: New or Improved Operational bility	Related RDT	-&E PEs:
FY 2014 Base Procurement dollars in the amount of \$70.610 million of aviation radios comprises a standard configuration of non-develop Modulation (IFM) Power Amplifier (two IFMs for CH-47F), and a suit	pmental a	and commercial off-the-shelf equipment. The standard config		
FY 2014 Base Procurement dollars in the amount of \$15.238 million hardware and software integration and initial interface definition with engineering services.				
In accordance with Section 1815 of the FY 2008 National Defense A defense missions, domestic emergency responses, and providing m		` '	active and reserve c	components of the Armed Forces for homeland

LI AA0723 - Comms, Nav Surveillance Army

Exhibit P-3A, Individual Modification: PB 2014 ArmyAppropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:Modification Nomenclature2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of AircraftAA0723 - Comms, Nav Surveillance(Modification Number - Modification Number - Modi

Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH, UAS

**Type Modification:** New or Improved Operational Capability

Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (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												
DGNS (AN/ASN-128D) P3I												
A Kits												
Recurring												
Engineering Change Orders	0 / 0.000	- /2.800	- /3.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /6.000
Data	0 / 0.000	- / 0.500	- /1.212	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /1.712
Training Equipment	0 / 0.000	- /3.400	- /3.400	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 6.800
Systems Engineering	0 / 0.000	- /5.700	- /6.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.700
Other - PM Admin	0 / 0.000	- / 0.800	- / 0.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.500
Subtotal Recurring	0 / 0.000	- /13.200	- /14.512	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /27.712
Total, DGNS (AN/ASN-128D) P3I	0 / 0.000	- /13.200	- /14.512	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /27.712
DGNS (AN/ASN-128D) CDU/Software Upgrade ECP												
A Kits												
Recurring												
Data	0 / 0.000	- / -	- / -	- / 0.387	- / -	- / 0.387	- / 0.600	- / -	- / -	- / -	- / -	- / 0.987
Systems Engineering	0 / 0.000	- / -	- / -	- / 1.680	- / -	- / 1.680	- / 1.494	- / 0.521	- / 0.560	- / 0.560	- / -	- /4.815
Other - PM Admin	0 / 0.000	- / -	- / -	- / 0.570	- / -	- / 0.570	- / 0.500	- / 0.500	- / 0.530	- / 0.470	- / -	- / 2.570
Subtotal Recurring	0 / 0.000	- / -	- / -	- /2.637	- / -	- /2.637	- /2.594	- /1.021	- /1.090	- /1.030	- / -	- /8.372
Non-Recurring												
Aircft Integ-Nonrecurring	0 / 0.000	- / -	- / -	- / 3.838	- / -	- / 3.838	- / 1.540	- / -	- / -	- / -	- / -	- / 5.378
Subtotal Non-Recurring	0 / 0.000	- / -	- / -	- /3.838	- / -	- /3.838	- /1.540	- / -	- / -	- / -	- / -	- /5.378
B Kits												
Recurring												
Kit Quantity - B-Kit	0 / 0.000	- / -	- / -	12 / 0.456	- / -	12 / 0.456	40 / 1.640	120 / 5.390	70 / 2.510	80 / 3.070	320 / -	642 / 13.066
Subtotal Recurring	0 / 0.000	- / -	- / -	12 / 0.456	- / -	12 / 0.456	40 / 1.640	120 / 5.390	70 / 2.510	80 / 3.070	320 / -	642 / 13.066
Total, DGNS (AN/ASN-128D) CDU/Software Upgrade ECP	0 / 0.000	- / -	- / -	12 / 6.931	- / -	12 / 6.931	40 / 5.774	120 / 6.411	70 / 3.600	80 / 4.100	320 / -	642 / 26.816
Embedded GPS Inertial Navigation System (EGI) P3I												
A Kits												

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Exhibit P-3A, Individual Modification: PB 2014 ArmyAppropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of AircraftAA0723 - Comms, Nav SurveillanceAircraft / BSA 10: Modification Of Aircraft(Modification Number - Modification Title):<br/>0000 - Communications, Navigation, and Surveillance

Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH, UAS

**Type Modification:** New or Improved Operational Capability

Related RDT&E PEs:

FY 2014 FY 2014 FY 2014 To **Prior Years** FY 2012 FY 2013 oco Total FY 2015 **FY 2016 FY 2017 FY 2018** Base Complete Total Qtv (Each) / **Financial Plan** Total Cost (\$ M) Total Cost (\$ M ) Total Cost ( Recurring **Engineering Change Orders** 0 / 0.000 / 0.800 - / 0.700 - / 1.500 0 / 0.000 / 0.101 - / 0.101 - / -- / -- / -- / -- / -- / 0.202 Data - / -- / -- / -- / -- / -- / -0 / 0.000 / 0.100 - / 0.100 - / -- / -- / -- / -- / 0.200 Training Equipment - / 1.500 - / -- / 0.530 / 1.400 - / -- / -- / -/ 0.500 / 0.560 / 4.490 Systems Engineering 0 / 0.000 Other - PM Admin 0 / 0.000 - / 1.000 - / 1.000 - / -- / -- / -- / -/ 0.500 - / 0.530 / 0.560 - / -- /3.590 Subtotal Recurring 0/0.000 / 3.401 / 3.401 /1.000 - /1.060 /1.120 / 9.982 Non-Recurring Aircraft Integration 0 / 0.000 - / -- / -- / -- / 1.500 / 1.500 / 3.000 0/0.000 - / -- / -- / -- / -- / -- / -- / -- /1.500 / 1.500 - / -- /3.000 Subtotal Non-Recurring B Kits Recurring 289 / 20.826 Kit Quantity - B-Kit 0 / 0.000 5 / 0.400 15 / 1.600 - / -- / -- / -- / -66 / 6.199 63 / 5.888 73 / 6 739 67 / -Subtotal Recurring 0/0.000 5/0.400 15/1.600 - / -- / -- / -- / -66 / 6.199 63 / 5.888 73 / 6.739 67/ -289 / 20.826 Total, Embedded GPS Inertial Navigation System (EGI) P3 0/0.000 5/3.801 15 / 5.001 - / -- / -- / -- / -66 / 7.199 73 / 9.359 67/ -289 / 33.808 63 / 8.448 Aviation Tactical Communication Systems (ATCS) A Kits Recurring 0 / 0.000 78 / 3.300 41 / 6.300 107 / 4.281 - / -107 / 4.281 48 / 2.448 - / -- / -- / -274 / 16,329 Kit Quantity-A-Kit Systems Engineering 0 / 0.000 / 3.300 - /3.400 / 3.500 - / -/ 3.500 - / 3.294 - / 2.299 - / 1.150 / 3.750 - / -- / 20.693 - /4.649 - /2.046 System Test & Evaluation 0 / 0.000 / 2.000 - /2.000 - /2.200 - / -/ 2.200 - /4.584 / 6.323 - / -- / 23.802 / 4.100 - /4.900 / 4.300 / 4.300 - /3.520 / 3.584 - / 2.400 / 4.050 - / 26.854 Fielding/Training 0 / 0.000 - / -Other - PM Admin SEPM 0 / 0.000 / 3.500 - /3.600 / 5.724 - / -/ 5.724 - / 6.697 / 2.803 - /2.179 / 3.543 - / -- / 28.046 41 / 20.200 107 / 20.005 - / -48 / 20.543 - /13.335 - /7.775 274 / 115.724 0/0.000 78 / 16.200 107 / 20.005 - /17.666 - / -Subtotal Recurring Non-Recurring ECPs - Nonrecurring 0 / 0 000 - /21 000 - / 21.000 - /7.595 /7.595 / 13.500 - / -- / -- / 63 095 - / -- / -0/0.000 - /21.000 - /21.000 /7.595 - / -/7.595 / 13.500 - / -- / -- / -- / -/ 63.095 Subtotal Non-Recurring B Kits

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Exhibit P-3A, Individual Modification: PB 2014 ArmyAppropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:Modification Nomenclature2031A: Aircraft Procurement, Army / BA 02: Modification of AircraftAA0723 - Comms, Nav Surveillance(Modification Number - Modification Numb

Models of Systems Affected: UH/HH-60A/L, UH/HH/MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH, UAS

**Type Modification:** New or Improved Operational Capability

Related RDT&E PEs:

FY 2014 FY 2014 FY 2014 To **Prior Years** FY 2012 FY 2013 oco Total FY 2015 **FY 2016 FY 2017 FY 2018** Complete Base Total Qtv (Each) / **Financial Plan** Total Cost (\$ M) Total Cost (\$ M ) | Total Recurring Kit Quantity-B-Kit (ARC-231) 0 / 0.000 383 / 34.700 190 / 17.000 231 / 27.357 231 / 27.357 275 / 34.591 280 / 34.445 269 / 31.329 200 / 26.650 1.828 / 206.072 Kit Quantity-B-Kit (ARC201D) 0 / 0.000 252 / 7.800 98 / 3.100 103 / 7.055 103 / 7.055 236 / 8.228 132 / 4.685 62 / 4.480 36 / 2.648 - / -919 / 37.996 - / -Kit Quantity-B-Kit (IFM) - / -857 / 17.225 0 / 0.000 252 / 4.800 98 / 1.900 103 / 2.298 - / -103 / 2.298 236 / 4.755 132 / 2.707 36 / 0.765 437 / 36.710 - / -747 / 47.574 3,604 / 261.293 Subtotal Recurring 0/0.000 887 / 47.300 386 / 22.000 437 / 36.710 544 / 41.837 331 / 35.809 272 / 30.063 3,878 / 440.112 Total, Aviation Tactical Communication Systems (ATCS) 0/0.000 965 / 84.500 427 / 63.200 544 / 64.310 - / -544 / 64.310 795 / 81.617 544 / 55.172 331 / 43.584 272 / 47.729 Joint Tactical Radio Systems (JTRS) A Kits Recurring Kit Quantity - A-Kit 0 / 0.000 - / -- / -80 / 5.300 - / -80 / 5.300 40 / 2.697 247 / 8.997 426 / 13.826 430 / 14.350 642 / -1,865 / 45.170 - / -- / -- / -- / -- / -- / -**Engineering Change Orders** 0 / 0.000 - /5.000 - / 10.444 / 8.400 - / -- / 23.844 0 / 0.000 - / -- / 0.415 - / -/ 0.415 - / 2.437 - / 3.435 - /3.508 / 3.582 - / 13.377 Support Equipment - / -\_ - / -System Test and Evaluation 0 / 0.000 / 2.000 - /2.000 - / 2.387 - / -/ 2.387 - /4.000 - / 13.282 - / 3.005 / 2.325 - / -- / 28.999 - / -- / -System Eng/Prog Mgmt (SEPM) 0 / 0.000 - / -- / -- / -- / 2.505 / 2.629 - /2.760 / 2.897 - / 10.791 0/0.000 - /2.000 - /2.000 80 / 8.102 40 / 11.639 247 / 33.343 426 / 33.543 430 / 31.554 642/ -1 865 / 122 181 Subtotal Recurring - / -80 / 8.102 Non-Recurring - / 13.300 - / 44.750 - /7.136 / 7.136 / 62.546 - / 50.481 - / 1.000 / 7.000 NRE Aircraft Integration 0 / 0.000 - / -- / 186.213 0/0.000 - /13.300 - /44.750 - /7.136 - / -/7.136 - /62.546 - /50.481 - /1.000 /7.000 - / -- /186.213 Subtotal Non-Recurring - /46.750 80 / 15.238 80 / 15.238 40 / 74.185 247 / 83.824 426 / 34.543 430 / 38.554 1.865 / 308.394 Total, Joint Tactical Radio Systems (JTRS) 0/0.000 - /15.300 - / -642/ -0/0.000 970 / 116.801 442 / 129,463 636 / 86,479 636 / 86,479 875 / 161.576 977 / 152,606 890 / 90.175 855 / 99.742 1.029 / -6.674 / 836.842 Total Procurement, All Modifications - / -Total Procurement and Support 0.000 116.801 129,463 86.479 86.479 161.576 152,606 90.175 99.742 836.842 0 / 0.000 46 / 0.295 - / -- / -- / -- / -- / -- / -- / -- / -- / -46 / 0.295 DGNS (AN/ASN-128D) P3I Installation Cost - / -- / -DGNS (AN/ASN-128D) CDU/Software Upgrade ECP 0 / 0.000 - / -- / -- / -9 / 0.027 33 / 0.099 100 / 0.300 100 / 0.300 400 / -642 / 0.726 Installation Cost Embedded GPS Inertial Navigation System (EGI) P3I - / -- / -0 / 0.000 - / -- / -- / -- / -- / -- / -- / -- / -- / -

LI AA0723 - Comms, Nav Surveillance Army

Aviation Tactical Communication Systems (ATCS)

Joint Tactical Radio Systems (JTRS) Installation Cost

0 / 0.000

0 / 0.000

19 / 0.759

- / -

93 / 3.728

- / -

Installation Cost

Installation Cost

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- / -

41 / 6.300

- / -

41 / 6.300

- / -

P-1 Line #24

48 / 2.496

40 / 0.176

- / -

247 / 5.528

- / -

426 / 10.846

- / -

1,072 / -

107 / 4.133

80 / 0.346

308 / 17.416

1,865 / 16.896

Exhibit P-3A, Individual Modification: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of Aircraft	P-1 Line Item Nomenclature: AA0723 - Comms, Nav Surveillance	Modification Nomenclature (Modification Number - Modification Title): 0000 - Communications, Navigation, and Surveillance
Models of Systems Affected: UH/HH-60A/L, UH/HH/ Type	Modification: New or Improved Operational	Related RDT&E PEs:

MH-60M, CH-47D, CH/MH-47F, OH-58D/F, AH-64D, LUH, UAS

**Type Modification:** New or Improved Operational Capability

				FY 2014	FY 2014	FY 2014					То	
	Prior Years	FY 2012	FY 2013	Base	oco	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )						
Total Installation Cost	0/0.000	65 / 1.054	93 / 3.728	41 / 6.300	- / -	41 / 6.300	196 / 4.506	121 / 2.771	347 / 5.828	526 / 11.146	1,472/ -	2,861 / 35.333
Total Cost (Procurement + Support + Installation)	0.000	117.855	133.191	92.779	-	92.779	166.082	155.377	96.003	110.888	-	872.175

Exhi	bit P-3A	A, Indiv	idual I	<b>Modifi</b>	cation: F	PB 2	014 Army													Date: /	۱pril	1 2013					
2031	A: Aircr	raft Pro	cureme	nt, Arr			ub Activit /lodification			<b>Line Ite</b> 0723 - Co	_			lance						Modific (Modific Title): 0000 - Surveill	c <i>ati</i> Cor	<i>ion Nui</i> mmuni	mbe	er - Mo	difica		and
	60M, CH				JH/HH-60 OH-58D		, UH/HH/ \H-64D,	Type I Capab		ification:	New	or Impr	oved	Operat	tional	I	Rel	ated R	DT	&E PEs	:						
Manu	acturer I	Informat	ion: DGI	IS (AN/	ASN-128D	) P3I																					
Manuf	acturer N	Name: BA	E Interna	tional Ir	ncorporated	t						Manu	ıfactur	er Location	on: Wa	ayne, NJ								-			
Admin	istrative L	Leadtime	(in Mont	hs): 2								Produ	uction	Leadtime	(in M	onths):											
	Dates	s		FY 20	12		FY 201	3		FY 201	4		FY	2015			FY 2	016			FY 2	2017			FY	2018	
Contra	ct Dates	<b>,</b>																									
Delive	ry Dates																										
Install	ation: Do	GNS (AN	I/ASN-12	8D) P3I				<b>Method</b> Contrac		nplementat	tion: M	odification	n Work	Order (N	ЛWO)	-	Insta	allation	Nam	e:							
Instal	ation: D0	GNS (AN	I/ASN-12	8D) P3I	Prior Ye	ears	FY 2012		ctor	FY 2014 Base		odification Y 2014 OCO	FY	Order (N 7 2014 Fotal	,	2015		allation		e: 'Y 2017	1	FY 2018	3	To Compl		Tot	tal
	ation: Do	,	I/ASN-12	8D) P3I	Prior Ye	h) /	Qty (Each) / Total Cost (\$ M)	FY 20 Qty (Ea	013 nch) /	FY 2014	l F	Y 2014	FY 1 Qty	′ 2014	<b>FY</b>		FY Qty		F			FY 2018 Qty (Each) otal Cost (\$	)/		lete ch)/	Tot Qty (Ea Total Cos	Each) /
<b>Instal</b> l	<b>ation Co</b> Years	,	I/ASN-12	8D) P3I	Qty (Eac Total Cost (	h) / (\$ <i>M</i> ) 0.000	Qty (Each) / Total Cost (\$ M ) 46 / 0.295	FY 20 Qty (Ea Total Cost	013 ach) / t (\$ M ) / 0.000	FY 2014 Base Qty (Each) Total Cost (\$	/ C M ) Tota	FY 2014 OCO Oty (Each) / al Cost (\$ M)	FY 1 Qty	7 2014 Fotal (Each) / Cost (\$ M) 0 / 0.000	<b>FY</b>	2015 (Each) / Cost (\$ M) 0 / 0.000	FY Qty	( 2016 (Each) / Cost (\$ M)	F	TY 2017  ty (Each) /  ol / Cost (\$ M )	() Tot	Qty (Each) otal Cost (\$ 0 / 0.0	) / ( M ) 7	Qty (Eac Total Cost	tete ch) / (\$ M ) / 0.000	Qty (Ea Total Cos	Each) / ost (\$ M )
Install All Prior FY 2012	<b>ation Co</b> Years	,	I/ASN-12	8D) P3I	Qty (Eac Total Cost (	h) / (\$ <i>M</i> ) 0.000	Qty (Each) / Total Cost (\$ M ) 46 / 0.295	FY 20 Qty (Ea Total Cost	D13 ach) / t (\$ M) / 0.000	FY 2014 Base	/ C M ) Tota	FY 2014 OCO Oty (Each) / al Cost (\$ M)	FY 1 Qty	7 2014 Fotal (Each) / Cost (\$ M) 0 / 0.000 - / -	<b>FY</b>	2015 (Each) / Cost (\$ M) 0 / 0.000	FY Qty	/ 2016 / (Each) / Cost (\$ M ) 0 / 0.000	F	ty (Each) / (Cost (\$ M ) 0 / 0.000	() Tot	Qty (Each) otal Cost (\$ 0 / 0.0	) / ( M ) 7 .000	Qty (Eac Total Cost 0 /	ch) / (\$ M ) / 0.000 / -	Qty (Ea Total Cos 46	Each) / ost (\$ M ) 6 / 0.295
Install All Prior FY 2012 FY 2013	<b>ation Co</b> Years	,	I/ASN-12	8D) P3I	Qty (Eacl Total Cost (	h) / (\$ <i>M</i> ) 0.000 0.000 0.000	Qty (Each) / Total Cost (\$ M ) 46 / 0.295	FY 20 Qty (Ea Total Cost	D13  ach) / t (\$ M)  / 0.000  / - / -	FY 2014 Base	/ C M) Tota 0000	FY 2014 OCO Dty (Each) / al Cost (\$ M ) - / - - / -	FY 1 Qty	7 2014 Total (Each) / Cost (\$ M) 0 / 0.000 - / - - / -	<b>FY</b>	2015 (Each) / Cost (\$ M) 0 / 0.000 - / -	FY Qty	/ 2016 / (Each) / Cost (\$ M) 0 / 0.000 - / - - / -	F	FY 2017  ty (Each) / // Cost (\$ M ) 0 / 0.000	() Tot	Qty (Each) otal Cost (\$ 0 / 0.0	.000 -	Compl Qty (Eac Total Cost 0 /	ch) / (\$ M ) / 0.000 / - / -	Qty (Ea Total Cos 46	Each) / pst (\$ M ) 6 / 0.295
Install All Prior FY 2012 FY 2013 FY 2014	ation Co Years	,	I/ASN-12	8D) P3I	Qty (Eac Total Cost ( 0 / 0 / 0 /	h) / (\$ M ) 0.000 0.000 0.000 0.000	Qty (Each) / Total Cost (\$ M ) 46 / 0.298 - / / -	FY 20 Qty (Ea Total Cost	tor  D13  ch) / t (\$ M)  / 0.000  / - / - / -	FY 2014 Base	1 C C Total C C Total C C C C C C C C C C C C C C C C C C C	FY 2014 OCO Oty (Each) / al Cost (\$ M ) - / - - / - - / -	FY 1 Qty	7 2014 Fotal (Each) / Cost (\$ M) 0 / 0.000 - / - - / -	<b>FY</b>	2015 (Each) / Cost (\$ M) 0 / 0.000 - / - - / -	FY Qty	( 2016 ( (Each) / Cost (\$ M ) 0 / 0.000 - / - - / -	F	EY 2017  ty (Each) /	() Tot	Oty (Each)  tal Cost (\$  0 / 0.0  - /  - /	) / .000 - -	Qty (Eac Total Cost 0 / - -	ch) / (\$ M) / 0.000 / - / - / - / -	Qty (Ea Total Cos 46	Each) / ost (\$ M ) 6 / 0.295
Install All Prior FY 2012 FY 2013	<b>ation Co</b> Years	,	I/ASN-12	8D) P3I	Qty (Eact Total Cost (	h) / (\$ <i>M</i> ) 0.000 0.000 0.000	Qty (Each) / Total Cost (\$ M ) 46 / 0.295	FY 20 Qty (Ea Total Cost) 0	D13  ach) / t (\$ M)  / 0.000  / - / -	FY 2014 Base	/ G / Tota	FY 2014 OCO Dty (Each) / al Cost (\$ M ) - / - - / -	FY 1 Qty	7 2014 Total (Each) / Cost (\$ M) 0 / 0.000 - / - - / -	<b>FY</b>	2015 (Each) / Cost (\$ M) 0 / 0.000 - / -	FY Qty	/ 2016 / (Each) / Cost (\$ M) 0 / 0.000 - / - - / -	F	FY 2017  ty (Each) / // Cost (\$ M ) 0 / 0.000	() Tot	Qty (Each) otal Cost (\$ 0 / 0.0	) / ( M ) 7 .000	Compl Qty (Eac Total Cost 0 / - - -	ch) / (\$ M ) / 0.000 / - / -	Qty (Ea Total Cos 46	Each) / pst (\$ M ) 6 / 0.295
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Manuf	facturer	r Name	e: BAE	Intern	ationa	l Incorp	orated		,					Manuf	acturer l	ocatio	n: Way	yne, NJ										
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Exhi	bit P-3	3A, Iı	ndivi	dual	Modif	icatio	n: P	B 201	4 Army												Date	: Apı	ril 2013	3			
2031	propriation / Budget Activity / Budget Sub Activity / Activity / BA 02: Modification of Aircraft / BSA 10: Modification o												<b>omenclat</b> s, Nav Su		ince					(Mod Title	difica: ):		ımbe	er - Mo	odifica	ation ation, an	
МН-6	els of \$ 60M, C , UAS	-								Type I Capab		fication	ı: New	v or Impro	oved C	Operat	ional		Rela	ted R	DT&E P	Es:					
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Manuf	ufacturer Name: TBD												Manuf	acturer	Location	n: TBE	)										
Admin	nistrative	e Lead	dtime (	in Mon	ths): 2									Produ	ction Le	eadtime	(in Mo	nths): 1	0								
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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

**Prior** 

AA0711 - GATM Rollup

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

**Other Related Program Elements:** 

To

MDAP/MAIS Code(s):

Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	586.660	69.220	87.280	65.613	-	65.613	59.010	61.847	65.793	71.773	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	586.660	69.220	87.280	65.613	-	65.613	59.010	61.847	65.793	71.773	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	586.660	69.220	87.280	65.613	-	65.613	59.010	61.847	65.793	71.773	Continuing	Continuing
	(The following	Resource Sum	mary rows are for	informational p	urposes only. Th	e corresponding	budget requests	s are documente	ed elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	-	-	-	-	-	-	-	-	-	-	-	-

FY 2014 | FY 2014 | FY 2014

#### **Description:**

This budget line supports procurement of Global Air Traffic Management equipment for both Fixed Wing (FW) and Rotary Wing (RW) 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.

Secor	ndary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	62.009	81.176	65.613	-	65.613	59.010	61.847	62.424	68.344
ANG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	4.327	3.391	-	-	-	-	-	-	-
AR	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	2.884	2.713	-	-	-	-	-	3.369	3.429

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<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

								0110	LAGE	/II IEE										
Exhibit P-40, Bud	dget Item J	ustifi	cation S	Sheet: I	PB 2014	4 Army									Date	: April	2013			
Appropriation / E 2031A: Aircraft Pro Modification Of Air	ocurement,						aft / BS/	A 10:	I		Item No - GATM		ature:							
ID Code (A=Service Ready	y, B=Not Service Re	ady):				Program	Element	s for Cod	e B Items	S:			Oth	er Relate	d Prograi	n Eleme	nts:			
MDAP/MAIS Code(s):																				
Item Sche	dule		P	rior Year	s		FY 2012			FY 2013		FY	2014 Ba	ise	F۱	2014 O	co	FY	2014 To	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	<b>Qty</b> (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	<b>Qty</b> (Each)	Total Cost
0000 - GATM - Fixed Wing Aircraft	P3A		-	-	160.972	-	-	14.396	-	-	17.179	-	-	12.072	-	-	-	-	-	12.072
0000 - GATM Rotary Wing Aircraft	P3A		-	-	425.688	-	-	54.824	-	-	70.101	-	-	53.541	-	-	-	-	-	53.541
Total Gross/Weapon System Cost					586.660			69.220			87.280			65.613			-			65.613
Item Sche	dule			FY 2015			FY 2016			FY 2017			FY 2018		To	Comple	te		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
0000 - GATM - Fixed Wing Aircraft	P3A		-	-	12.569	-	-	15.063	-	-	19.065	-	-	15.645		Continuing	,		Continuing	
0000 - GATM Rotary Wing Aircraft	P3A		-	-	46.441	-	-	46.784	-	-	46.728	-	-	56.128		Continuing			Continuing	
Total Gross/Weapon System Cost					59.010			61.847			65.793			71.773		Continuing			Continuing	,
*Item Nomenclature repre	esents Item Numb	er, DC	DIC, and Ite	em Name	for the P40	A and P5;	Name for	the P18 and	P23; Mod	ification N	umber and	Modification	n Title for t	he P3A; Ite	m Number	and Item I	Name for th	e P10.		
Note: Totals in this Exhibit	t P-40 set may n	ot be ex	xact or add	due to rou	nding.															
Justification:																				

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Exhibit P-3A, Individual Modific	ation: PB 2	014 Army							Date: A	pril 2013		
Appropriation / Budget Activity 2031A: Aircraft Procurement, Arm Aircraft / BSA 10: Modification Of	ny / BA 02: N	•		<b>Line Item I</b> 0711 - GATI		ure:			(Modific		enclature per - Modific ed Wing Airo	
Models of Systems Affected: Al wing aircraft	I series of A	rmy fixed		ification: Rability, Comp			zation,	Related R	DT&E PEs:			
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	160.972	14.396	17.179	12.072	-	12.072	12.569	15.063	19.065	15.645	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	160.972	14.396	17.179	12.072	-	12.072	12.569	15.063	19.065	15.645	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	160.972	14.396	17.179	12.072	-	12.072	12.569	15.063	19.065	15.645	Continuing	Continuing

#### **Description:**

Initial Spares (\$ in Millions)

Gross/Weapon System Unit Cost

(Units in Thousands)

Global Air Traffic Management (GATM) is the military equivalent of the International Civil Aviation architecture known as Communications, Navigation Surveillance and Air Traffic Management (CNS/ATM) 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 the upgrading of some existing avionics and displays and the procurement of new systems for the fixed wing fleet.

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

FY14 Base procurement dollars in the amount of \$12.072 million supports GATM equipment for Fixed Wing aircraft. Fixed Wing aircraft were purchased with avionics available at the time of production. However, for the Army's Fixed Wing aircraft to remain current and have unrestricted access to the rapidly changing Air Traffic Management airspace, new communication, navigation and surveillance equipment will be needed to meet GATM requirements. Unless equipped, the Army's senior leadership will be limited in conducting their worldwide command and control missions because of potential airspace exclusion or routing delays. In addition, new communication and navigation systems will increase reliability and maintainability by employing commercial systems thereby improving aircraft availability for mission requirements.

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<sup>#</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0711 - GATM Rollup

Modification Nomenclature

(Modification Number - Modification Title):

0000 - GATM - Fixed Wing Aircraft

**Models of Systems Affected:** All series of Army fixed wing aircraft

**Type Modification:** Rationalization, Standarization, Interoperability, Compatibility, Simplification

Related RDT&E PEs:

			, , , , , , , , , , , , , , , , , , ,		.,,							
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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												
Global Air Traffic Management - FW												-
A Kits												_
Recurring												_
Installation Kits	185 / 112.480	34 / 9.977	9 / 11.925	1 / 8.350	- / -	1 / 8.350	4 / 8.698	4 / 10.444	5 / 13.245	7 / 10.851	- / -	249 / 185.97
Data	0 / 0.200	- / 0.100	- /0.100	- / 0.100	- / -	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- / 0.90
Subtotal Recurring	185 / 112.680	34 / 10.077	9 / 12.025	1 / 8.450	- / -	1 / 8.450	4 / 8.798	4 / 10.544	5 / 13.345	7 / 10.951	- / -	249 / 186.87
Total, Global Air Traffic Management - FW	185 / 112.680	34 / 10.077	9 / 12.025	1 / 8.450	- / -	1 / 8.450	4/8.798	4 / 10.544	5 / 13.345	7 / 10.951	- / -	249 / 186.87
Total Procurement, All Modifications	185 / 112.680	34 / 10.077	9 / 12.025	1 / 8.450	- / -	1 / 8.450	4 / 8.798	4 / 10.544	5 / 13.345	7 / 10.951	- / -	249 / 186.87
Total Procurement and Support	112.680	10.077	12.025	8.450	-	8.450	8.798	10.544	13.345	10.951	-	186.87
Global Air Traffic Management - FW Installation Cost	185 / 48.292	34 / 4.319	9 / 5.154	1 / 3.622	- / -	1 / 3.622	4 / 3.771	4 / 4.519	5 / 5.720	7 / 4.694	- / -	249 / 80.09
Total Installation Cost	185 / 48.292	34 / 4.319	9 / 5.154	1/3.622	- / -	1/3.622	4/3.771	4 / 4.519	5/5.720	7 / 4.694	- / -	249 / 80.09
Total Cost (Procurement + Support + Installation)	160.972	14.396	17.179	12.072	-	12.072	12.569	15.063	19.065	15.645	-	266.96

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Exhibit P-3A, Indiv	ridual Modification: P	B 2014 Army						Date: April 2013	
2031A: Aircraft Prod	dget Activity / Budge curement, Army / BA 0 lodification Of Aircraft			P-1 Line Item Noi AA0711 - GATM F				Modification Nome (Modification Number Title): 0000 - GATM - Fixed	er - Modification
Models of Systems wing aircraft	s Affected: All series	of Army fixed		Modification: Ration Ration Ration Report Notes	onalization, Standarizatio oility, Simplification	n, <b>Rela</b>	ted RI	DT&E PEs:	
Manufacturer Informati	on: Global Air Traffic Man	agement - FW							
Manufacturer Name: Mu	Itiple Commercial Lenders				Manufacturer Location: TB	D			
Administrative Leadtime	(in Months): 2				Production Leadtime (in M	onths): 6			
Dates	FY 2012	FY 2013		FY 2014	FY 2015	FY 20	16	FY 2017	FY 2018
Contract Dates	Dec 2011	Dec 2012	2	Dec 2013	Dec 2014	Dec 20	015	Dec 2016	Dec 2017
Delivery Dates	May 2012	May 2013	3	May 2014	May 2015	May 20	016	May 2017	May 2018

Installation: Global Air Traffic	: Management - FW		Method of Im	nplementation	: Contractor			Installation N	lame:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Installation Cost	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)			
All Prior Years	185 / 48.292	0 / 0.000	0 / 0.000	0 / 0.000	- / -	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	0 / 0.000	185 / 48.292
FY 2012	0 / 0.000	34 / 4.319	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	34 / 4.319
FY 2013	0 / 0.000	- / -	9 / 5.154	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	9 / 5.154
FY 2014	0 / 0.000	- / -	- / -	1 / 3.622	- / -	1 / 3.622	- / -	- / -	- / -	- / -	- / -	1 / 3.622
FY 2015	0 / 0.000	- / -	- / -	- / -	- / -	- / -	4 / 3.771	- / -	- / -	- / -	- / -	4 / 3.771
FY 2016	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	4 / 4.519	- / -	- / -	- / -	4 / 4.519
FY 2017	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 5.720	- / -	- / -	5 / 5.720
FY 2018	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	7 / 4.694	- / -	7 / 4.694
To Complete	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total	185 / 48.292	34 / 4.319	9 / 5.154	1 / 3.622	- / -	1 / 3.622	4 / 3.771	4 / 4.519	5 / 5.720	7 / 4.694	- / -	249 / 80.091

### Installation Schedule

		0004	u																												
			FY 2	2012			FY 2	2013			FY 2	2014			FY 2	2015			FY 2	2016			FY 2	2017			FY 2	018			
	APY	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	тс	Tot
In	185	8	8	9	9	5	2	1	1	-	-	1	-	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	-	249
Out	178	7	8	8	9	9	5	2	1	1	-	-	1	-	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	1	249

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LI AA0711 - GATM Rollup Army

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Exhibit P-3A, Individual Modification: PB 2014 Arm	าง			Date: April 2013
Appropriation / Budget Activity / Budget Sub Activ 2031A: Aircraft Procurement, Army / BA 02: Modificati	•	P-1 Line Item Nomenclature: AA0711 - GATM Rollup		Modification Nomenclature (Modification Number - Modification
Aircraft / BSA 10: Modification Of Aircraft				Title): 0000 - GATM Rotary Wing Aircraft
Models of Systems Affected: LIH&HH60A&I	Type	Modification: New or Improved Operational	Related RDT	%F PFs·

CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M. AHE MHE AHEAARD OHERDRE LIAS

Capability

And, Wind, And4A&D, On36D&F	, UAS											
Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	425.688	54.824	70.101	53.541	-	53.541	46.441	46.784	46.728	56.128	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	425.688	54.824	70.101	53.541	-	53.541	46.441	46.784	46.728	56.128	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	425.688	54.824	70.101	53.541	-	53.541	46.441	46.784	46.728	56.128	Continuing	Continuing
	(The following	g Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)			
Initial Spares (\$ in Millions)	_	-	_	-	_	-	-	-	-	-	-	-

	(Trie lollowiri	g Resource Sum	illiary rows are i	or imormational p	ourposes only. Th	ne correspondin	g buaget request	s are document	ea eisewriere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
#												

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### **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, r 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 programs to the Doppler Global Positioning System (GPS) Navigation System (DGNS) and the Embedded GPS Inertial (EGI) Navigation System are 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. 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.

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

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			Date: April 2013					
: of	P-1 Line Item Nomenclature: AA0711 - GATM Rollup		Modification Nomenclature (Modification Number - Modification Title): 0000 - GATM Rotary Wing Aircraft					
• •	·							
ese airc	raft with enhanced IFF Mode 5 capabilities.							
			e an enhanced GPS in support of ADS-B Out for					
	· ·	n.						
upports	modification of EGI to meet GATM requirements.							
		ctive and reserve o	omponents of the Armed Forces for homeland					
	Type Capa  upports ese airc upports upports upports upports upports upports upports uthoriza	P-1 Line Item Nomenclature:  of AA0711 - GATM Rollup  Type Modification: New or Improved Operational Capability  upports procurement of APX-123 B-Kits and procurement and installatese aircraft with enhanced IFF Mode 5 capabilities.  upports procurement and installation of Mode 5 upgrade kits which consupports the associated Non-Recurring Engineering (NRE) integration upports installation of ARC-231 A and B Kits on the UH-60 A/L platform upports modification of EGI to meet GATM requirements.	P-1 Line Item Nomenclature:  AA0711 - GATM Rollup  Type Modification: New or Improved Operational Capability  Papports procurement of APX-123 B-Kits and procurement and installation of APX-123 A-lese aircraft with enhanced IFF Mode 5 capabilities.  Papports procurement and installation of Mode 5 upgrade kits which convert previously fiest supports the associated Non-Recurring Engineering (NRE) integration which will facilitate supports installation of ARC-231 A and B Kits on the UH-60 A/L platform.  Papports modification of EGI to meet GATM requirements.					

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Exhibit P-3A, Individual Modification: PB 2014 Army

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

P-1 Line Item Nomenclature:

AA0711 - GATM Rollup

Modification Nomenclature
(Modification Number - Modification Title):
0000 - GATM Rotary Wing Aircraft

Models of Systems Affected: UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS

**Type Modification:** New or Improved Operational Capability

Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (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												
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
Engineering Change Orders	0 / 7.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /7.200
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 (ST&E)	0 / 3.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /3.500
Other- PM Admin	0 / 14.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 14.50
Other	0 / 5.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 5.600
Subtotal Recurring	2,048 / 72.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,048 / 72.900
B Kits												
Recurring												_
Kit Qty- APX-118 B-Kits	2,635 / 113.812	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,635 / 113.812
Subtotal Recurring	2,635 / 113.812	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,635 / 113.812
Non-Recurring												
B-Kit Nonrecurring	0 / 6.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /6.600
Subtotal Non-Recurring	0 / 6.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /6.600
Total, Global Air Traffic Mgmt RW APX-118	4,683 / 193.312	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4,683 / 193.312
Global Air Traffic Mgmt RW APX-123												
A Kits												
Recurring		-										
Kit Quantity - APX-123 A-Kits	32 / 0.100	- / -	225 / 1.100	168 / 0.800	- / -	168 / 0.800	168 / 0.900	82 / 0.400	82 / 0.420	- / -	- / -	757 / 3.720
AirCrft Integ/RCUs/KIV77	0 / 13.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 13.100
ECP	0 / 5.100	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /5.100
Systems Eng/Prog Mgt (SEPM)	0 / 9.400	- /1.900	- /1.000	- /0.700	- / -	- /0.700	- /0.700	- /0.700	- / 0.700	- / -	- / -	- / 15.100

LI AA0711 - GATM Rollup Army UNCLASSIFIED
Page 8 of 21

Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0711 - GATM Rollup

Date: April 2013

Modification Nomenclature

(Modification Number - Modification

Title):

0000 - GATM Rotary Wing Aircraft

Models of Systems Affected: UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS

**Type Modification:** New or Improved Operational

Capability

Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M								
Other PM Admin	0 / 3.900	- / 0.200	- / 0.100	- /0.100	- / -	- / 0.100	- / 0.100	- / 0.100	- / 0.100	- / -	- / -	- /4.600
Subtotal Recurring	32 / 31.600	- /2.100	225 / 2.200	168 / 1.600	- / -	168 / 1.600	168 / 1.700	82 / 1.200	82 / 1.220	- / -	- / -	757 / 41.620
B Kits												
Recurring												
Kit Quantity - APX-123 B-Kits	648 / 13.900	75 / 4.200	231 / 8.212	138 / 5.241	- / -	138 / 5.241	218 / 2.000	157 / 1.100	86 / 0.480	- / -	- / -	1,553 / 35.133
Subtotal Recurring	648 / 13.900	75 / 4.200	231 / 8.212	138 / 5.241	- / -	138 / 5.241	218 / 2.000	157 / 1.100	86 / 0.480	- / -	- / -	1,553 / 35.133
Non-Recurring												,
B-Kits, Nonrecurring	0 / 20.600	- /2.000	- / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /23.400
Subtotal Non-Recurring	0 / 20.600	- /2.000	- /0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /23.400
Total, Global Air Traffic Mgmt RW APX-123	680 / 66.100	75 / 8.300	456 / 11.212	306 / 6.841	- / -	306 / 6.841	386 / 3.700	239 / 2.300	168 / 1.700	- / -	- / -	2,310 / 100.153
Global Air Traffic Mgmt RW APX-118 Upgrade Kits												,
A Kits												-
Recurring												
Kit Qty- Upgrade A-Kits	272 / 1.311	250 / 1.330	250 / 1.335	219 / 1.394	- / -	219 / 1.394	200 / 0.500	- / -	- / -	- / -	- / -	1,191 / 5.870
Engineering Change Orders	0 / 0.100	- /1.023	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 1.123
System Eng/Prog Mgt (SEPM)	0 / 5.600	- /3.200	- / 0.800	- / 0.800	- / -	- / 0.800	- / 0.400	- / 0.200	- / 0.100	- / -	- / -	- / 11.100
Subtotal Recurring	272 / 7.011	250 / 5.553	250 / 2.135	219 / 2.194	- / -	219 / 2.194	200 / 0.900	- /0.200	- /0.100	- / -	- / -	1,191 / 18.093
B Kits												
Recurring												
Kit Qty- Upgrade B-Kits	1,620 / 16.000	- / -	489 / 5.900	489 / 5.600	- / -	489 / 5.600	462 / 5.389	93 / 1.020	- / -	- / -	- / -	3,153 / 33.909
Subtotal Recurring	1,620 / 16.000	- / -	489 / 5.900	489 / 5.600	- / -	489 / 5.600	462 / 5.389	93 / 1.020	- / -	- / -	- / -	3,153 / 33.909
Non-Recurring												
B-Kits Nonrecurring	0 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /1.200
Subtotal Non-Recurring	0 / 1.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /1.200
Total, Global Air Traffic Mgmt RW APX-118 Upgrade Kits	1,892 / 24.211	250 / 5.553	739 / 8.035	708 / 7.794	- / -	708 / 7.794	662 / 6.289	93 / 1.220	- /0.100	- / -	- / -	4,344 / 53.202
Global Air Traffic Mgmt RW ADS-B Out												-
A Kits												
Recurring												-
Kit Qty: ADS-B Out A-Kits	0 / 0.000	- / -	- / -	- / -	- / -	- / -	306 / 1.800	680 / 3.000	886 / 2.700	1.391 / 5.618	1,221 / -	4.484 / 13.118

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Exhibit P-3A, Individual Modification: PB 2014 Army

P-1 Line Item Nomenclature:

**Modification Nomenclature** 

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

(Modification Number - Modification

Aircraft / BSA 10: Modification Of Aircraft

Title):

Date: April 2013

AA0711 - GATM Rollup

0000 - GATM Rotary Wing Aircraft

Models of Systems Affected: UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS

**Type Modification:** New or Improved Operational Capability

Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ N							
Engineering Change Orders	0 / 0.000	- / 1.100	- / 2.054	- / 0.700	- / -	- /0.700	- / 0.700	- / 0.710	- / 0.525	- / 0.610	- / -	- / 6.39
Data	0 / 0.000	- / 0.800	- / 0.800	- / 0.320	- / -	- / 0.320	- / 0.700	- / 0.700	- / 0.600	- / 0.525	- / -	- /4.44
Training Equipment	0 / 0.000	- /2.100	- / 2.200	- / 0.855	- / -	- / 0.855	- / 0.900	- / 0.500	- / 0.420	- / 0.450	- / -	- /7.42
Fielding	0 / 0.000	- / 0.400	- / 0.400	- / 0.214	- / -	- / 0.214	- / 0.200	- / 0.200	- / 0.220	- / 0.400	- / -	- /2.03
System Eng/Prog Mgt (SEPM)	0 / 0.000	- /2.200	- / 2.200	- /3.026	- / -	- / 3.026	- / 3.454	- / 1.200	- / 1.103	- /2.900	- / -	- / 16.08
System Test & Eval (ST&E)	0 / 0.000	- / 0.200	- / 0.200	- / 5.468	- / -	- / 5.468	- / 0.200	- / 0.200	- / 0.250	- /1.244	- / -	- /7.76
Other- PM Admin	0 / 0.000	- / 2.300	- / 2.300	- / 1.000	- / -	- / 1.000	- / 1.100	- / 1.200	- / 0.800	- /2.000	- / -	- / 10.70
Subtotal Recurring	0/0.000	- /9.100	- /10.154	- /11.583	- / -	- /11.583	306 / 9.054	680 / 7.710	886 / 6.618	1,391 / 13.747	1,221 / -	4,484 / 67.96
Non-Recurring												
Non-Recurring Engineering	0 / 0.000	- / 10.700	- / 22.301	- / 14.162	- / -	- / 14.162	- /8.075	- / 5.541	- / 1.830	- /1.098	- / -	- / 63.70
Subtotal Non-Recurring	0 / 0.000	- /10.700	- /22.301	- /14.162	- / -	- /14.162	- /8.075	- /5.541	- /1.830	- /1.098	- / -	- /63.70
B Kits			1	1		1	ı					J.
Recurring												
Kit Qty: ADS-B Out B-Kits	0 / 0.000	- / -	- / -	- / -	- / -	- / -	306 / 5.700	680 / 11.355	886 / 11.121	1,391 / 14.871	1,221 / -	4,484 / 43.04
Subtotal Recurring	0/0.000	- / -	- / -	- / -	- / -	- / -	306 / 5.700	680 / 11.355	886 / 11.121	1,391 / 14.871	1,221 / -	4,484 / 43.04
Total, Global Air Traffic Mgmt RW ADS-B Out	0/0.000	- /19.800	- / 32.455	- /25.745	- / -	- / 25.745	612 / 22.829	1,360 / 24.606	1,772 / 19.569	2,782 / 29.716	2,442 / -	8,968 / 174.72
Global Air Traffic Mgmt RW ARC-231			ı	ı		ı	ı			1 -	1	
A Kits												
Recurring												
Kit Qty- ARC-231 A-Kit	320 / 19.500	52 / 2.600	47 / 2.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	419 / 24.60
Testing	0 / 0.800	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.80
PM Admin / SEPM	0 / 4.950	- / -	- / -	- / 0.238	- / -	- / 0.238	- / -	- / -	- / -	- / -	- / -	- / 5.18
Subtotal Recurring	320 / 25.250	52 / 2.600	47 / 2.500		- / -	- /0.238	- / -	- / -	- / -	- / -	- / -	419 / 30.58
Non-Recurring												
NRE (A-Kit)	0 / 1.350	- / 1.145	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.49
Subtotal Non-Recurring	0 / 1.350	- /1.145	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.4
B Kits	3, 1,300	7 1.140			, -			, -	, -	, -	, -	, 2.43
Recurring												1
Kit Qty- ARC-231 B-Kit	320 / 54.000	52 / 6.300	47 / 5.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	419 / 66.00

LI AA0711 - GATM Rollup Army UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2014 Army

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

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0711 - GATM Rollup

Date: April 2013

**Modification Nomenclature** 

(Modification Number - Modification

Title):

0000 - GATM Rotary Wing Aircraft

Models of Systems Affected: UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS

Type Modification: New or Improved Operational

Capability

Related RDT&E PEs:

0) / Qty (Each) / \$ M ) Total Cost (\$ N 0.000 52 / 6.30 0.600 104 / 10.00 0.400 - / - 0.400 - / - 0.400 - / -	1) Total Cost (\$ M) 00 47 / 5.700 15 94 / 8.200	- / -	- / -	Oty (Each) / Total Cost (\$ M ) - / / 0.238	Oty (Each) / Total Cost (\$ M ) - / / -	- / -	Oty (Each) / Total Cost (\$ M ) - / / -	Oty (Each) / Total Cost (\$ M ) - / - - / -	Oty (Each) / Total Cost (\$ M ) - / - - / -	419 / 66.00
1.400 - / - 1.400 - / -	94/8.200	- /0.238	- / -	- /0.238	- / -	- / -				419 / 66.00 838 / 99.08
1.400 - / - 1.400 - / -	- 1 -	- / -	- / -		· ·		- / -	- / -	- / -	838 / 99.08
0.400 - / -	,	-		- / -	- / -					
0.400 - / -	,	-		- / -	- / -					
0.400 - / -	,	-		- / -	- / -					
0.400 - / -	,	-		- / -	- / -					
	- / -	- / -	- / -		'	- / -	- / -	- / -	- / -	- / 10.40
0.009 52 / 2.50	-		,	- / -	- / -	- / -	- / -	- / -	- / -	- /10.40
5.009 52 / 2.50										
52 / 2.5										
	00 47 / 2.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	443 / 30.10
5.009 52/2.5	00 47/2.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	443 / 30.10
52/2.5	00 47/2.600	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	443 / 40.50
									,	
.000 - / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / 0.500	- / 0.250	- / -	- / 1.25
.000 - / -	- / -	- / -	- / -	- / -	- / -	- / -	- /2.683	- / -	- / -	- / 2.68
.000 - / -	- / -	- / -	- / -	- / -	- / -	- /1.012	- /1.000	- / 0.500	- / -	- / 2.51
.000 - / -	- / -	- / -	- / -	- / -	- / -	- / 0.500	- / 0.500	- / 0.250	- / -	- / 1.250
.000 - / -	- / -	- / -	- / -	- / -	- / -	- /2.012	- /4.683	- /1.000	- / -	- /7.69
.000 - / -	- / -	- / -	- / -	- / -	- / -	12 / 0.720	80 / 4.800	70 / 4.839	468 / -	630 / 10.35
0.000 - / -	- / -	- / -	- / -	- / -	- / -	12 / 0.720	80 / 4.800	70 / 4.839	468 / -	630 / 10.35
'		•								
.000 - / -	- / -	- / -	- / -	- / -	- / -	- / 12.888	- / -	- / -	- / -	- / 12.88
0.000 - / -	- / -	- / -	- / -	- / -	- / -	- /12.888	- / -	- / -	- / -	- /12.88
0.000 - / -	- / -	- / -	- / -	- / -	- / -	12 / 15.620	80 / 9.483	70 / 5.839	468 / -	630 / 30.94
0 0 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

LI AA0711 - GATM Rollup Army

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Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

AA0711 - GATM Rollup

Date: April 2013

Modification Nomenclature

(Modification Number - Modification

Title):

0000 - GATM Rotary Wing Aircraft

Models of Systems Affected: UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS

**Type Modification:** New or Improved Operational

Capability

Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (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 Kits												,
Recurring												
Aircraft Integration	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /7.513	- /8.072	- / -	- / 15.585
Data	0 / 0.000	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 0.500	- / -	- / 0.250	- / 0.250	- / -	- / 1.500
Systems Engineering	0 / 0.000	- / -	- / -	- / 1.000	- / -	- / 1.000	- / 1.000	- / -	- / 0.500	- / 0.500	- / -	- /3.000
Other	0 / 0.000	- / -	- / -	- / 0.500	- / -	- / 0.500	- / 0.500	- / -	- / 0.250	- / 0.250	- / -	- / 1.500
Subtotal Recurring	0 / 0.000	- / -	- / -	- /2.000	- / -	- /2.000	- /2.000	- / -	- /8.513	- /9.072	- / -	- /21.585
B Kits												
Recurring												
Kit Quantity B-Kit	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	124 / 5.000	209 / 9.000	- / -	333 / 14.000
Subtotal Recurring	0/0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	124 / 5.000	209 / 9.000	- / -	333 / 14.000
Non-Recurring												,
B-Kit, Nonrecurring	0 / 0.000	- / -	- / -	- /7.017	- / -	- /7.017	- / 9.548	- / -	- / -	- / -	- / -	- / 16.565
Subtotal Non-Recurring	0/0.000	- / -	- / -	- /7.017	- / -	- /7.017	- /9.548	- / -	- / -	- / -	- / -	- /16.565
Total, Embedded GPS Inertial (EGI) Navigation System ECP	0/0.000	- / -	- / -	- /9.017	- / -	- /9.017	- /11.548	- / -	124 / 13.513	209 / 18.072	- / -	333 / 52.150
Total Procurement, All Modifications	8,239 / 399.632	481 / 46.198	1,336 / 62.502	1,014 / 49.635	- / -	1,014 / 49.635	1,660 / 44.366	1,704 / 43.746	2,144 / 44.365	3,061 / 53.627	2,910/ -	22,549 744.071
Total Procurement and Support	399.632	46.198	62.502	49.635	-	49.635	44.366	43.746	44.365	53.627	-	744.071
Global Air Traffic Mgmt RW APX-118 Installation Cost	1,562 / 11.556	221 / 1.500	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1,783 / 13.056
Global Air Traffic Mgmt RW APX-123 Installation Cost	0 / 0.000	- / -	- / -	225 / 0.300	- / -	225 / 0.300	168 / 0.500	168 / 0.600	82 / 0.300	82 / 0.300	- / -	725 / 2.000
Global Air Traffic Mgmt RW APX-118 Upgrade Kits Installation Cost	188 / 1.000	449 / 2.800	520 / 2.000	638 / 1.706	- / -	638 / 1.706	526 / 1.575	382 / 1.500	93 / 0.500	- / -	- / -	2,796 / 11.081
Global Air Traffic Mgmt RW ADS-B Out Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	306 / 0.900	680 / 1.092	886 / 1.400	2,612 / -	4,484 / 3.392
Global Air Traffic Mgmt RW ARC-231 Installation Cost	270 / 13.500	50 / 2.508	52 / 2.399	47 / 1.900	- / -	47 / 1.900	- / -	- / -	- / -	- / -	- / -	419 / 20.307
Global Air Traffic Mgmt RW Transition Doors Installation Cost	0 / 0.000	50 / 1.818	88 / 3.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	138 / 5.018
DGNS (AN/ASN-128D) SDC Upgrade Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	9 / 0.038	63 / 0.192	80 / 0.240	478 / -	630 / 0.470
Embedded GPS Inertial (EGI) Navigation System ECP Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	93 / 0.279	187 / 0.561	53 / -	333 / 0.840
Total Installation Cost	2,020 / 26.056	770 / 8.626	660 / 7.599	910 / 3.906	- / -	910 / 3.906	694 / 2.075	865 / 3.038	1,011 / 2.363	1,235 / 2.501	3,143 / -	11,308 / 56.164

LI AA0711 - GATM Rollup Army UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2014 ArmyAppropriation / Budget Activity / Budget Sub Activity:<br/>2031A: Aircraft Procurement, Army / BA 02: Modification of<br/>Aircraft / BSA 10: Modification Of AircraftP-1 Line Item Nomenclature:<br/>AA0711 - GATM RollupModification Nomenclature<br/>(Modification Number - Modification<br/>Title):<br/>0000 - GATM Rotary Wing Aircraft

Models of Systems Affected: UH&HH60A&L, CH47D&F, UH60M, MH47D/G/E/F, MH60L/K/M, AH6,MH6, AH64A&D, OH58D&F, UAS

**Type Modification:** New or Improved Operational Capability

Related RDT&E PEs:

				FY 2014	FY 2014	FY 2014					То	
Pr	rior Years	FY 2012	FY 2013	Base	oco	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
_ · · · · · · · ·	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /	Qty (Each) /
Financial Plan	otal Cost (\$ M )	Total Cost (\$ M )	Total Cost (\$ M)	Total Cost (\$ M )	Total Cost (\$ M)	Total Cost (\$ M )						
Total Cost (Procurement + Support + Installation)	425.688	54.824	70.101	53.541	-	53.541	46.441	46.784	46.728	56.128	-	800.235

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Exh	ibit P-3A	۹, Indiv	/idua	al Modi	ficati	on: Pl	3 2014	Army											Date: A	April 2	2013				
203	ropriatio IA: Aircra aft / BSA	aft Proc	curer	ment, A	rmy /	BA 02					<b>Line Item I</b> 711 - GATI		ature:						(Modifi Title):	catio	on Nome on Numb	er - Mod	difica		
CH4	lels of Sy 7D&F, U ,MH6, Al	JH60M,	, MH	47D/G/	E/F, <b>!</b>	<b>ИН60</b> І			Type N Capab		fication: No	ew or Imp	oroved	Opera	tional		Related	RDT	&E PEs	i.					
Manu	ıfacturer In	Informatio	ion: G	Blobal Ai	r Traffi	c Mgm	RW AP	X-118																	
Manu	facturer Na	lame: BAE	E Sys	stems, Ind	orpora	ted						Ma	nufactur	er Location	on: Gree	ılawn	, NY								
Admii	nistrative Le	Leadtime	(in Mo	onths):								Pro	duction	Leadtime	e (in Mon	hs):									
	Dates	<del></del>		FY	2012		-	FY 2013			FY 2014		FY	2015			FY 2016			FY 201	17		FY 2	2018	
Contr	act Dates																								
Delive	ery Dates															-									-
									Method	of Imi	plementation	: Modificati	on Work	Order (N	/WO) -										
Insta	<b>llation:</b> Glo	lobal Air T	Traffic	: Mgmt R	W APX	-118			<b>Method</b> Contract	-	plementation				MWO) -		Installatio	n Nan	ne:			То			
Insta	<b>llation:</b> Glo	lobal Air T	Traffic	: Mgmt R		-118 ior Yea	's FY	′ 2012	l	tor	plementation FY 2014 Base	FY 2014 OCO	FY	Order (N 7 2014 Total	MWO) -	15	Installatio		ne: FY 2017	FY	Y 2018	To Comple	ete	Tot	tal
	llation: Glo		Traffic	: Mgmt R	Pr		/ Qty	' 2012 (Each) / Cost (\$ M)	Contract	13 ch) /	FY 2014	FY 2014	F)	7 2014	FY 20	ch) /		1		Qty	Y 2018  ty (Each) / // Cost (\$ M )		h) /	Total Cos	ach) /
	llation Cos		Traffic	: Mgmt R	Pr C Tota	ior Yea	/ Qty M ) Total (	(Each) /	FY 20  Qty (Eac	13 ch) /	FY 2014 Base	FY 2014 OCO Qty (Each)	Cty (A) Total	7 2014 Fotal	FY 20 Qty (Ea Total Cost	ch) /	<b>FY 2016</b> Qty (Each)	l (M) Tot	<b>FY 2017</b> Qty (Each) /	Qty ) Total	ty (Each) /	Qty (Each Total Cost (	h) /	Qty (Ea	ach) /
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Exhi	bit P-3	3A, Ir	ndivi	dual	Мо	dificat	tion: P	B 20	14 Army												D	ate: A	pril	2013					
2031		craft F	Proc	ureme	ent,	Army	/ BA 0		<b>b Activit</b> odificatio					lomencla 1 Rollup	iture:						( <i>N</i>	/lodific itle):	catic	on No	mber	- Mo	odifica		
CH4		, UH6	60M,	MH47	7D/	G/E/F,	&HH60 MH60 JAS			<b>Type</b> Capat		ificatio	n: Ne	w or Imp	roved	Operat	ional		Rela	ated R	DT&E	E PEs	:						
Manu	facturer	r Infor	matio	n: Glo	bal	Air Traf	fic Mgm	ıt RW	APX-123																				
Manuf	facturer l	· Name	: BAE	Syster	ms,	ncorpo	rated							Man	ufacture	er Location	n: Gre	enlawn,	NY										
Admir	istrative	e Lead	time (	in Mon	ths):	2								Prod	uction L	eadtime	(in Mo	nths): 1	5										
	Date	es			F	Y 2012			FY 201	3		FY 2	2014		FY 2	2015			FY 20	016		F	Y 20	017			FY	2018	
Contra	act Dates	es							Dec 20	12		Dec 2	2013		Dec	2014		ı	Dec 2	015		D	ec 2	2016					
Delive	ry Dates	es							Feb 20	14		Feb 2	2015		Feb	2016			Feb 2	017		F	eb 2	2018					
										Method	d of Im	nplemen	tation:	Modificatio	n Work	Order (N	1WO) -												
Instal	lation: (	Global	Air Tr	affic M	lgmt	RW AP	'X-123			Method Contrac		plemen	tation:	Modificatio	n Work	Order (N	1WO) -		Insta	llation	Name:						,		
Instal	lation: (	Global	Air Tr	raffic M	lgmt		X-123 Prior Yea	ars	FY 2012		ctor	FY 20 Bas	014	FY 2014 OCO	FY	Order (N 2014 otal		2015		Illation		2017	F	FY 201	8 (	To Comp		Tot	tal
	lation: (		Air Tr	raffic M	lgmt	P		) /	FY 2012  Qty (Each) /  Total Cost (\$ M	FY 20	013 ach) /	FY 20	014 se	FY 2014	FY T	2014	FY 2		<b>FY</b> Qty		FY Qty (	<b>2017</b> Each) / ost (\$ M )	Q	FY 2018  Qty (Each)	) /		olete ach)/	Tot  Qty (Ea	ach) /
	lation C		Air Tr	raffic M	lgmt	P	Prior Yea	) / 5 M ) To	Qty (Each) /	FY 20 Oty (Ea	013 ach) /	FY 20 Bas Qty (Ea	014 se	FY 2014 OCO Qty (Each) /	FY T	2014 fotal (Each) /	FY :	2015 Each) /	<b>FY</b> Qty	2016 (Each) /	FY Qty (	Each) /	Q Tota	Qty (Each)	) / S M ) To	Comp Qty (Ea otal Cos	olete ach)/	Qty (Ea	ach) /
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FY 2015							0 / 0.	_		/ -		- /			/ -		- /	_		- / -		- / -		382 / 1.	_	- /			- / -		/ -		32 / 1.500
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Exhi	bit P-3	3A, I	ndivi	dual l	Modif	ficatio	on: P	B 20°	14 Army											Dat	e: Ap	oril 2013	3				
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CH4	<b>els of</b> 7D&F, ,MH6,	, UH6	60M,	MH47	D/G/	E/F, N	MH60			Type N Capabi		fication: N	lew or I	mpro	ved Opera	tional		Rela	ated R	DT&E F	PEs:						
Manu	facture	r Info	rmatio	n: Glo	bal Air	r Traffic	c Mgm	t RW	ADS-B Out																		
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Admir	nistrative	e Leac	dtime (	in Mon	ths): 2								F	Produc	tion Leadtim	e (in Mo	nths): 1	6									
	Date	tes			FY 2	2012			FY 2013	3		FY 2014			FY 2015			FY 20	016		F	Y 2017		T	FY 20	018	
Contra	act Date	es													Dec 2014		[	Dec 2	2015		De	ec 2016			Dec 20	2017	
Delive	ery Date	es													Mar 2016	$\overline{}$	1	Mar 2	, 017		Ma	ar 2018		_	Mar 20	019	
Instal	lation: (	Globa	ıl Air Tr	affic M	gmt R\	W ADS	-B Out			Method Contract		plementatio			·	MWO) -		Insta	allation N	lame:							
Instal	lation: (	Globa	ıl Air Tr	affic M	gmt R\		S-B Out		FY 2012		tor	FY 2014 Base	r: Modific	)14	Work Order ( FY 2014 Total		2015		allation N	Name: FY 20	17	FY 201	8	To Complet	e	Tota	al
	lation: (		ıl Air Tr	raffic M	gmt R\	Pri		ars	FY 2012  Oty (Each) / otal Cost (\$ M )	Contract	13	FY 2014	FY 20	014 O	FY 2014	FY 2		<b>FY</b> Qty			:h) /	FY 201  Qty (Each	n) /		1	Tota Qty (Ea	ach) /
	lation C		ıl Air Tr	raffic M	gmt R\	Pri	ior Yea	ars	Qty (Each) /	FY 20  Qty (Eac Total Cost (	13	FY 2014 Base	FY 20 OCO Qty (Ea Total Cost	014 O	FY 2014 Total	FY 2 Qty (E	2015 Each) /	<b>FY</b> Qty	/ 2016	FY 20 Qty (Eac	:h) /	Qty (Each Total Cost (	n) /	Complete Qty (Each)	/ M) To	Qty (Ea Total Cos	ach) / st (\$ M
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Instal All Prior FY 201: FY 201: FY 201: FY 201: FY 2010	lation C Years 2 3 4 5		ıl Air Tr	affic M	gmt R\	Pri	ior Yeach) al Cost (\$ 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0	Ars (M) To (.000 (	Oty (Each) / otal Cost (\$ M )	Contract  FY 20  Qty (Eac Total Cost   0 /	tor  13  ch) / (\$ M)  0.000  / - / - / - / - / - / -	FY 2014 Base  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -	FY 20 OC( Qty (Ea Total Cost)	014 O ch)/:(\$M) / / / / /	FY 2014 Total  Qty (Each) / Total Cost (\$ M / 0 / 0.000 - / / / / / / -	FY 2  Oty (E Total Cc)	2015 Each) / sst (\$ M) 0 / 0.000 - / / / / / -	FY Qty Total (	( 2016 ( (Each) / Cost (\$ M) 0 / 0.000 - / - - / - 306 / 0.900 - / -	FY 20  Qty (Eac Total Cost  0 /	(\$ M ) / (\$ M ) 0.000 / - / - / - / - / - 1.092	Qty (Each Total Cost (:	n) / \$ M ) 7 7 0.000	Complet	/ M ) To	Qty (Ea Fotal Cost 0 - - - 306 680	ach) / st (\$ M 0 / 0.00
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Instal All Prior FY 2012 FY 2014 FY 2014 FY 2016 FY 2016	lation C Years 2 3 4 5 6 7 7		al Air Tr	raffic M	gmt R\	Pri	ior Yea  Oty (Each) al Cost (\$ 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0 0/0	.000 .000 .000 .000 .000 .000 .000 .00	Qty (Each) / otal Cost (\$ M )	Contract  FY 20  Qty (Eac Total Cost (  0 /	tor  13 ch) / (\$ M) 0.000 / - / - / - / - / - / -	FY 2014 Base  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -	FY 20 OC( Oty (Ea Total Cost)	014 O ch)/ t(\$M) / - / - / - / - / -	FY 2014 Total  Qty (Each) /  Total Cost (\$ M,  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -	FY 2 Qty (E Total Co	2015 Each) / St (\$ M) 0 / 0.000 - / / / / / / / / -	FY Qty Total (	/ 2016 / (Each) / Cost (\$ M) 0 / 0.000 - / - - / - 306 / 0.900 - / -	FY 20     Qty (Eac     Total Cost	(sh) / (s M) 0.000 / - / - / - / - 1.092 / -	Qty (Each Total Cost (:	n) /	Complet  Oty (Each)  Total Cost (\$  0 / 0.  - /  - /  - /  - /  - /  - /	/ M) Ta	Qty (Ea Fotal Cosi 0 - - - 306 680 886 1,39	ach) / st (\$ M ) / 0.00  / - / - / - / - 0 / 0.90 0 / 1.09
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Instal All Prior FY 201: FY 201: FY 201: FY 201: FY 201: FY 201: To Com Total	Years 2 3 4 5 5 6 7 3 supplete	Cost	lule	2012	gmt R\	Pri	ior Yea  Oty (Each)  0 / 0  0 / 0  0 / 0  0 / 0  0 / 0  0 / 0  0 / 0  0 / 0  0 / 0  0 / 0  0 / 0  0 / 0  0 / 0  0 / 0	Ars   // // // // // // // // // // // // /	Qty (Each) / otal Cost (\$ M )	Contract  FY 20  Qty (Eac Total Cost (  0 /	13 (\$ M) (\$ M) (\$ M) (\$ M) (\$ - M) (\$	FY 2014 Base  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -  - / -	FY 20 OCt Ott (East of the Cost of the Cos	D14 O  ch) / ((\$ M) / - / - / - / - / - / - / - / - / - / -	FY 2014 Total  Qty (Each) / Total Cost (\$ M / 0 / 0.000 - / / / / / / / / / / / -	FY 2 Qty (E Total Co	2015 Each) / sst (\$ M ) 0 / 0.000 - / / / / / / / / / / / / -	FY Qty Total (	/ 2016 / (Each) / Cost (\$ M) 0 / 0.000 - / - - / - 306 / 0.900 - / - - / - - / - 306 / 0.900	FY 20     Qty (Eac     Total Cost	ch) / (\$ M ) 0.000 / - / - / - / - 1.092 / - / -	Qty (Each Total Cost (:	n) / s M / T 0.000 0.000 0 0.000 0 0 0 0 0 0 0 0 0	Complet  Oty (Each) Total Cost (\$ 0 / 0.  - / - / - / - / - / 1,391 / 1,221 /	/ M) Ta	Qty (Eafortal Cosister of Cosi	ach) / st (\$ M ) / 0.00  / - / - / - / - / - / - / - / - 21 / -
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Exhibit P-3A	A, Indivi	dual Modi	fication:	PB 20	)14 Army										Date: A	April 2013			
Appropriation 2031A: Aircraft / BS/	raft Procu	urement, A	rmy / BA	02: M			1	<b>ine Item I</b> 711 - GATI		ature	:				(Modific	cation Num	nenclature ber - Modific ary Wing Airc		
Models of S CH47D&F, U AH6,MH6, A	ÚН60М, I	MH47D/G/	E/F, MH6			Type N Capab		ication: N	ew or Imp	orove	d Operat	ional	R	elated R	DT&E PEs	:			
Manufacturer I	Informatio	n: Global Ai	r Traffic Mg	mt RW	ARC-231														
Manufacturer N	Name: Rayt	heon, Incorp	orated						Ma	nufactu	rer Locatio	n: Fort Wa	ne, I	N					
Administrative L	Leadtime (i	in Months): 2							Pro	duction	Leadtime	(in Months	: 10						
Dates	 S	FY	2012		FY 2013	3		FY 2014		F۱	Y 2015		F	Y 2016		Y 2017	FY	2018	
Contract Dates	<u> </u>	Dec	2011		Dec 201	2								-					
Delivery Dates			2012		Sep 201														
						Mothod	of Imn	lomontation	. Madificati	on Mor	d Order (N	4\4(0)	$\neg$						
Installation: Gl	ilobal Air Tr	affic Mgmt R	W ARC-231			Method Contract		lementation	: Modificati	on Wor	rk Order (N	MO) -	In	nstallation N	Name:				
Installation: Gl	ilobal Air Tr	affic Mgmt R	W ARC-231	ears	FY 2012		tor	FY 2014 Base	FY 2014		rk Order (N FY 2014 Total	1WO) - FY 2015		nstallation N	Name: FY 2017	FY 2018	To Complete	Tot	tal
Installation: GI		affic Mgmt R		h) /	FY 2012  Qty (Each) / Total Cost (\$ M )	Contract	113 ch) /	FY 2014	FY 2014	. <b>F</b>	Y 2014	,	,			Qty (Each) /	Complete  Qty (Each) /	Tot Qty (Ea Total Cos	Each) /
		affic Mgmt R	Prior Y	h) / (\$ M ) 7	Qty (Each) /	FY 20 Qty (Each Total Cost	113 ch) /	FY 2014 Base	FY 2014 OCO Qty (Each)	F / Q M) Tota	TY 2014 Total	FY 2015  Qty (Each)	M) To	FY 2016  Qty (Each) /	FY 2017  Qty (Each) /	Qty (Each) / Total Cost (\$ M	Complete  Qty (Each) / Total Cost (\$ M)	Qty (Ea	Each) / ost (\$ M
Installation Co All Prior Years FY 2012		affic Mgmt R	Prior Y  Qty (Ear Total Cost 270 /	h) / (\$ M ) 7 3.500 0.000	Qty (Each) / Total Cost (\$ M ) 50 / 2.508	FY 20 Oty (Eac Total Cost 0 / 52 /	tor  113  ch) / (\$ M) 7  / 0.000  / 2.399	FY 2014 Base Qty (Each) / Total Cost (\$ M ) 0 / 0.000	FY 2014 OCO Oty (Each) Total Cost (\$ - /	, <b>F</b> / Q; M) Tota	FY 2014 Total  ty (Each) / fr Cost (\$ M) 0 / 0.000 - / -	FY 2015  Oty (Each)  Total Cost (\$ 0 / 0.0	M) Ta	FY 2016  Oty (Each) / otal Cost (\$ M)  0 / 0.000  - / -	FY 2017  Qty (Each) / Total Cost (\$ M )  0 / 0.000	Qty (Each) / Total Cost (\$ M 0 / 0.00	Complete	Qty (Ea Total Cos 320 /	Each) / ost (\$ M / 16.00
Installation Co All Prior Years FY 2012 FY 2013		affic Mgmt R	Prior Y  Qty (Ear Total Cost  270 /  0	h) / (\$ M ) 7 3.500 0.000	Oty (Each) / Total Cost (\$ M ) 50 / 2.508 - / -	FY 20 Qty (Eac Total Cost 0 / 52 /	tor  113  ch) / (\$ M) 7  / 0.000  / 2.399  / -	FY 2014 Base  Oty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  47 / 1.900	FY 2014 OCO Oty (Each) Total Cost (\$ - / - /	. <b>F</b> / Q / Tota	FY 2014 Total ty (Each) / n/ Cost (\$ M) 0 / 0.000 - / - 47 / 1.900	FY 2015  Oty (Each)  Total Cost (\$ )  0 / 0.0	M) Ta	FY 2016  Oty (Each) / otal Cost (\$ M)  0 / 0.000  - / -  - / -	FY 2017  Qty (Each) / Total Cost (\$ M )  0 / 0.000	Qty (Each) / Total Cost (\$ M ) 0 / 0.00 - / -	Omplete  Qty (Each) / Total Cost (\$ M)  0 0 / 0.000  - / / -	Qty (Ea Total Cos 320 / 52	Each) / pst (\$ M
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Exhibit F	P-3A, I	Indivi	dual Mo	difica	tion: PE	3 2014	Army													Date: A	pril	2013			
Appropri 2031A: A Aircraft /	vircraft	Procu	urement,	Army	/ BA 02					Line Item 1711 - GAT			ure:							(Modific	catio	on Numb	enclature per - Modific ry Wing Airo		
Models of CH47D& AH6,MH6	F, UH	60M, I	MH47D/0	3/E/F,	MH60L			Type I Capab		fication: N	New o	r Impro	oved C	Operat	ional	1	Re	lated R	DT	&E PEs	:				
Manufactu	rer Info	rmatio	n: Global A	Air Tra	ffic Mgm1	RW Tra	nsition	Doors																	
Manufactur	er Nam	e: Avia	tion Applied	l Techr	nology Dir	ectorate	(AATD)					Manuf	acturer	Location	n: Fo	rt Belvoi	r, VA								
Administrat	ive Lead	dtime (i	n Months):	2								Produ	ction Le	eadtime	(in M	onths): 1	15								
D	ates		F <sup>*</sup>	<b>Y</b> 2012			FY 2013			FY 2014			FY 2	015			FY 2	2016		F	Y 20	)17	FY	2018	
Contract Da	ates		De	c 2011		[	Dec 2012	2																	
Delivery Da	ates		Fe	b 2013	3	-	eb 2014	1																	
Installation	n: Globa	al Air Tr	affic Momt	RW Tra	ansition D	oors		Method Contrac		plementation	n: Mod	lification	Work C	Order (N	/WO)	-	Inst	allation	Nam	e:					
				ı	Prior Yea	s FY	2012	FY 20	013	FY 2014 Base	- 1	2014 CO	1	2014 otal	FY	2015	F	Y 2016	F	Y 2017	F	Y 2018	To Complete	To	otal
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Installation	n Cost				Qty (Each)	Qty M) Total (	(Each) /	Qty (Ea	ich) /	Base  Qty (Each) /	Qty ) Total (	(Each) /	Qty (E Total Co	etal Each) /	Qty	(Each) /	Qt	y (Each) /	Tota	ty (Each) /	Q: Tota	ty (Each) /	Complete  Qty (Each) /	Qty ( Total C	(Each) /
	n Cost				Qty (Each) otal Cost (\$	Qty Total (	(Each) / Cost (\$ M)	Qty (Ea Total Cost	ich) / t (\$ M )	Base  Qty (Each) / Total Cost (\$ M	Qty ) Total (	(Each) / Cost (\$ M)	Qty (E Total Co	Each) / ost (\$ M)	Qty	(Each) / Cost (\$ M)	Qt	y (Each) / / Cost (\$ M )	Tota	ty (Each) / al Cost (\$ M )	Q: Tota	ty (Each) / al Cost (\$ M )	Complete  Qty (Each) / Total Cost (\$ M)	Qty ( Total C	(Each) / cost (\$ M
All Prior Years FY 2012 FY 2013	n Cost				Qty (Each) otal Cost (\$ 0 / 0.0	Qty Total (	(Each) / Cost (\$ M) 0 / 0.000 50 / 1.818	Qty (Ea Total Cost 49 39	/ 1.782 / 1.418	Qty (Each) / Total Cost (\$ M 0 / 0.00	Qty ) Total (	(Each) / Cost (\$ M) - / / / -	Qty (E Total Co	Dtal Each) / Dst (\$ M) 0 / 0.000 - / / -	Qty	(Each) / Cost (\$ M) 0 / 0.000 - / -	Qt	y (Each) / / Cost (\$ M ) 0 / 0.000 - / -	Tota	ty (Each) / a/ Cost (\$ M ) 0 / 0.000	Q: Tota	oty (Each) / a/ Cost (\$ M) 0 / 0.000 - / -	Complete  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -	Qty (	(Each) / cost (\$ M 49 / 1.78 89 / 3.23
All Prior Years FY 2012 FY 2013 FY 2014	n Cost				Qty (Each) otal Cost (\$ 0 / 0.0 0 / 0.0 0 / 0.0 0 / 0.0	Qty Total () 1000 1000 1000 1000 1000 1000 1000 1	(Each) / Cost (\$ M) 0 / 0.000 50 / 1.818 - / -	Qty (Ea Total Cost 49 39	/ 1.782 / 1.418 / -	Base  Qty (Each) /  Total Cost (\$ M  0 / 0.00  - / -  - / -  - / -	Qty ) Total (	(Each) / Cost (\$ M) - / / / / -	Qty (E Total Co	Datal Each) / Dost (\$ M ) 0 / 0.000 - / / / / / / / / / / / / / / / - / / / / / / / / / / / -	Qty	(Each) / Cost (\$ M) 0 / 0.000 - / / / -	Qt	y (Each) / ' Cost (\$ M ) 0 / 0.000 - / - - / - - / -	Tota	ty (Each) / a/ Cost (\$ M ) 0 / 0.000 - / - - / -	Q: Tota	tty (Each) / a/ Cost (\$ M) 0 / 0.000 - / / / -	Complete   Qty (Each) / Total Cost (\$ M )   0 / 0.000   - / / -   - / -	Qty ( Total C	(Each) / cost (\$ M 49 / 1.78 89 / 3.23 - / -
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All Prior Years FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 To Complete Total Installation	n Sched	FY 2	2012	7	Qty (Each) otal Cost (\$1 0 / 0.0 0 / 0.0 0 / 0.0 0 / 0.0 0 / 0.0 0 / 0.0 0 / 0.0 0 / 0.0 FY 2	Qty 70tal (0000 0000 0000 0000 0000 0000 0000 0	(Each) / Cost (\$ M ) 0 / 0.000 50 / 1.818 - / / / / / / / - 50 / 1.818	Qty (Ea Total Cosi 49 39 88	(ch) / t (\$ M) / 1.782 / 1.418 / - / - / - / - / - / - / - / / - / / - / / 200	Base  Qty (Each) / Total Cost (\$ M	Cty Total (	(Each) / Cost (\$ M ) - / / / / / / / / / / / / / / / / / / -	To Cty (E Total Cc	Each) / ost (\$ M) 0 / 0.000 - / - / / - / / -	Qty Total C	(Each) / Cost (\$ M ) 0 / 0.000 -	Qt Total	y (Each) / Cost (\$ M )	GG Total	ty (Each) / al Cost (\$ M ) 0 / 0.000 -	Q: Tota	ty (Each) / al Cost (\$ M ) 0 / 0.000 - / / / / / / / / / / / -	Complete  Qty (Each) / Total Cost (\$ M ) 0 / 0.000 - / - /	Qty (Total C	Each) / ost (\$ M 49 / 1.78 89 / 3.23 - / / / / / / / / - 38 / 5.01
All Prior Years FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 To Complete Total Installation	n Sched	FY 2	3 4	1	Qty (Each) otal Cost (\$ 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 0 / 0 7 / 0 / 0 FY 2	Qty 70tal (0) 1000 1000 1000 1000 1000 1000 1000	(Each) / Cost (\$ M ) 0 / 0.000 50 / 1.818 - / - / - / - / - / - / - / - / - / - /	Qty (Ea Total Cost 49 39 888	(ch) / t (\$ M )   (5 M )   (5 M )   (5 M )   (7 1.782   7 1.418   7 - 7   7	Base  Qty (Each) / Total Cost (\$ M	C(ty   Total (t)   Total (t)	(Each) / (Dost (\$ M )) - /	To Qty (E Total Co	Each) / sst (\$ M) 0 / 0.000 - / - / / - / / - / / - / / -	Qty Total C	(Each) / Cost (\$ M ) 0 / 0.000 -	Qt	y (Each) / Cost (\$ M ) 0 / 0.000 - / / / / / / / / / / -	FY 2	ty (Each) / hl Cost (\$ M ) 0 / 0.000 -	Q: Tota	ty (Each) / hl Cost (\$ M ) 0 / 0.000 - / - /	Complete  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -	Oty (	Each) / lost (\$ M 49 / 1.78 89 / 3.23 - / - /
All Prior Years FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 To Complete Total Installation	1 Sched	FY 2	3 4	1 50 4	Qty (Each) otal Cost (\$1 0 / 0.0 0 / 0.0 0 / 0.0 0 / 0.0 0 / 0.0 0 / 0.0 0 / 0.0 0 / 0.0 FY 2	Qty 70tal (0000 0000 0000 0000 0000 0000 0000 0	(Each) / Cost (\$ M ) 0 / 0.000 50 / 1.818 - / - / - / - / - / - / - / - / - / - /	Qty (Ea Total Cosi 49 39 88	(ch) / t (\$ M) / 1.782 / 1.418 / - / - / - / - / - / - / - / / - / / - / / 200	Base  Qty (Each) / Total Cost (\$ M	Cty Total (	(Each) / Cost (\$ M ) - / / / / / / / / / / / / / / / / / / -	To Cty (E Total Cc	Each) / ost (\$ M) 0 / 0.000 - / - / / - / / -	Qty Total C	(Each) / Cost (\$ M ) 0 / 0.000 -	Qt Total	y (Each) / Cost (\$ M )	GG Total	ty (Each) / al Cost (\$ M ) 0 / 0.000 -	Q: Tota	ty (Each) / al Cost (\$ M ) 0 / 0.000 - / / / / / / / / / / / -	Complete  Qty (Each) / Total Cost (\$ M ) 0 / 0.000 - / - /	Qty (Total C	Each) / ost (\$ M 49 / 1.78 89 / 3.23 - / / / / / / / / - 38 / 5.01

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Exhibit	P-3A,	Indivi	dual	Modi	ficati	on: P	B 2	014 Arn	ny														Date:	Apr	il 2013					
Approp 2031A: Aircraft	Aircraf	t Proc	urem	ent, A	rmy /	BA 0						<b>Line</b> )711 -				ture:							(Modi Title):	ficat	ion Nu	mbe	r - Mod	difica		
Models CH47D8 AH6,MH	ßF, UH			Type N Capab		ficatio	on: N	ew or	Impr	oved	Opera	tiona	al	Re	elated I	RDT	&E PE	s:												
Manufact	urer Info	SDC	Upgrad	le																										
Manufactu	ırer Nan	ne: BAE	Interr	ational	Incorp	orated									Manu	factur	er Locati	on: W	ayne, N	J										
Administra	6,MH6, AH64A&D, OH58D&F, UAS ufacturer Information: DGNS (AN/ASN-128D) SDC Upgrade ufacturer Name: BAE International Incorporated inistrative Leadtime (in Months): 2														Produ	ıction	Leadtime	e (in M	/lonths):	12										
ı	Dates			FY 2	2012			FY 2	2013			FY	2014			FY	2015			FY	2016			FY 2	2017			FY 2	018	
Contract D	Dates																			Dec	2015			Dec	2016			Dec 2	2017	
Delivery D	ates																	Nov	2016			Nov	2017			Nov 2	2018			
Installatio	n: DGN	IS (AN//	ASN-1	28D) SI	DC Up	grade				Method Contract		pleme	ntatior	<b>1:</b> Modi	fication	) Work	Order (I	MWO)	) -	Ins	tallation	Nam	e:							
						rior Yea	ars	FY 201	12	FY 20	13	FY 2 Ba			2014 CO		Y 2014 Total	FY	r 2015	F	Y 2016	F	Y 2017		FY 201	8	To Comple	ete	Tota	al
Installatio	n Cost					Qty (Each		Qty (Each		Qty (Ead		Qty (E Total Co			Each) / ost (\$ M )		(Each) / Cost (\$ M)		(Each) / Cost (\$ M		ty (Each) / al Cost (\$ M		ty (Each) al Cost (\$ I		Qty (Each)		Qty (Each		Qty (Ea	
All Prior Years	s					0/0	.000	0/0	0.000	0 /	0.000	-	0 / 0.000		- / -		0 / 0.000	)	0 / 0.00	0	0 / 0.00	00	0 / 0.0	000	0/0	.000	0/0	0.000	0	0.00
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FY 2013						0/0	_	- /			/ -		/ -	_	- / -		- / -		- / -		- / -		- /	_	- /		- /	_		/ -
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FY 2018						0/0	_	- /			/ -		/ -	_	- / -		- / -		- / -	+	- / -		- /	_	60 / 0		10 /			0 / 0.18
To Complete						0/0	.000	- /	· -	-	/ -	-	/ -		- / -		- / -		- / -		- / -		- /		- /	-	468 /	-	46	88 / -
Total						0/0	.000	- /	/ -	-	/ -	-	/ -		- / -		- / -		- / -		9 / 0.03	38	63 / 0.1	92	80 / 0	.240	478 /	-	630	0 / 0.47
Installatio	n Sche	dule																												
		FY	2012			FY 2	2013			FY 2	2014			FY	2015			FY 2	2016			FY 2	017			FY 2	2018			
AP	Y 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	TC	Tot
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Out -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	20	20	20	20	20	20	498	630

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P-1 Line #25

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Exhi	bit P-3A	A, Indiv	vidual	Modif	ication	: PB	2014 Arm	/										Date:	Apr	il 2013				
2031		raft Pro	curem	ent, Aı	my / B	A 02:	Sub Activ Modification		I .	<b>Line Item</b> 0711 - GAT			re:					(Modi	ficat	tion Nur	mber	nclature r - Modif Wing A	ication	1
CH4	<b>els of S</b> 7D&F, L ,MH6, A	UH60M	l, MH4	7D/G/E	E/F, MH	160L/			<b>pe Modi</b> pability	ification: N	lew or li	mprov	ed Opera	tional		Relate	ed RD1	&E PE	is:					
Manu	facturer I	Informat	ion: Em	bedded	d GPS In	ertial (	(EGI) Naviga	tion Sy	/stem ECI	Р														
Manu	facturer N	Name: Ho	neywell,	Incorp	orated						N	/lanufac	cturer Location	on: Cle	arwater	, FL								
Admii	nistrative L	Leadtime	(in Mon	ths): 2							F	roducti	ion Leadtime	in Mc	onths): 1	2								
	Dates	s		FY 2	2012		FY 20	13		FY 2014			FY 2015			FY 2016	i		FY	2017		F	Y 2018	
Contr	act Dates	 3																	Dec	2016		D	ec 2017	,
Delive	ery Dates	<u> </u>																	Nov	2017	$\rightarrow$	N	ov 2018	
								Mat	thed of low		a. Madifia	otion \A	Jarle Ordan /	4\4(0)		T								
Insta	llation: En	mbedded	d GPS In	ertial (E	:GI) Navi	gation	System ECP		thod of Im	nplementation	n: Modific	ation W	Vork Order (N	ИWO) -		Installa	tion Nar	ne:						
Insta	llation: En	mbedded	d GPS In	ertial (E		gation Years		Con		FY 2014 Base	FY 20	14	Vork Order (N FY 2014 Total		2015	Installa		ne: FY 2017		FY 2018	3 (	To Complete	т	Гotal
	llation: En		i GPS In	ertial (E	Prior Qty (		FY 2012  Qty (Each)	F' Qt	ntractor	FY 2014	FY 20	114 O	FY 2014	FY 2			016		,	FY 2018  Qty (Each)  Total Cost (\$)	/		Qty	Total (Each) / Cost (\$ M
	lation Co		i GPS In	ertial (E	Prior Qty (	Years	G FY 2012  Qty (Each) / Total Cost (\$ I	F Qt Total	rtractor Y 2013 ty (Each) /	FY 2014 Base	FY 20 OC( Qty (Eac Total Cost	114 O	FY 2014 Total	FY 2 Qty (E Total Co	<b>2015</b> Each) /	FY 20 Qty (Ea Total Cos	016	<b>FY 2017</b> Qty (Each)	/ M) T	Qty (Each)	M) To	Complete Qty (Each) /	Qty 1) Total C	(Each) /
Insta	lation Co		d GPS In	ertial (E	Prior Qty (	Years Each) / ost (\$ M	Grant Cost (\$ 1 0 0 / 0.00	Con  F'  Qtr Total	Y 2013  ty (Each) / / Cost (\$ M )	FY 2014 Base  Oty (Each) / Total Cost (\$ M)	FY 20 OCC Qty (Eac Total Cost	014 O ch) / (\$ M ) 7	FY 2014 Total Qty (Each) / Total Cost (\$ M)	FY 2	2015 Each) / ost (\$ M)	FY 20 Qty (Ea Total Cost	016 nch) / t (\$ M ) To	FY 2017 Qty (Each)	/ М) Т	Qty (Each) otal Cost (\$ i	M) To	Qty (Each) / total Cost (\$ M	Qty Total C	(Each) / Cost (\$ M
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Instal All Prior FY 201 FY 201	llation Co		d GPS In	ertial (E	Prior Qty (	Years Each) / ost (\$ M 0 / 0.00 0 / 0.00 0 / 0.00 0 / 0.00	Gty (Each)  Other (Strict Cost	Con  F'  Qt: Total	Y 2013  ty (Each) / / Cost (\$ M)  0 / 0.000  - / -  - / -	FY 2014 Base  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -	FY 20 OCC Qty (Ear Total Cost	(\$ M) 7 / - / - / - / -	FY 2014 Total Qty (Each) / Total Cost (\$ M ) 0 / 0.000 - / - - / -	FY 2 Qty (E	2015 Each) / ost (\$ M) 0 / 0.000 - / - - / -	FY 20 Qty (Ea Total Cos:	016  ch) / t (\$ M )   To / 0.000   / -     / -     / -	FY 2017  Qty (Each)  stal Cost (\$  0 / 0.1  - /  - /	/ M ) 70 000 - -	Qty (Each) otal Cost (\$ i	/ M ) To	Qty (Each) / otal Cost (\$ \( \) 0 / 0.00 - / / / / -	Qty Total C	(Each) / Cost (\$ M 0 / 0.000 - / / / / -
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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 02: Modification of Aircraft / BSA 10:

A00018 - RQ-7 UAV MODS

Modification Of Aircraft

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements: 0375204A, 0375233A

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MDAP/MAIS Code(s):

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,198.937	165.139	104.339	121.902	-	121.902	167.186	141.196	139.992	151.100	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,198.937	165.139	104.339	121.902	-	121.902	167.186	141.196	139.992	151.100	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,198.937	165.139	104.339	121.902	-	121.902	167.186	141.196	139.992	151.100	Continuing	Continuing
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	g budget request	s are documente	ed elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

4.647.043

41.284.750

#### **Description:**

(Units in Thousands)

Gross/Weapon System Unit Cost

RQ-7 UAV: Tactical Unmanned Aerial System (TUAS) RQ-7 provides the Army Brigade Commander with dedicated Reconnaissance, Surveillance and Target Acquisition (RSTA), Intelligence, Battle Damage Assessment (BDA) and Force Protection. The TUAS Shadow has logged over 803,326 flight hours, most of which were flown in support of Operation Iraqi Freedom and Operation Enduring Freedom. The Shadow air vehicle meets the required operating range of 50 kilometers and remains on station for up to nine hours. The full TUAS Shadow system consists of four air vehicles with payload, launchers, and ground control and support equipment including: power generation, communications equipment, automated recovery equipment, one system remote video terminals (OSRVT), vehicle mounted shelters, and High Mobility Multipurpose Wheeled Vehicles with trailer(s). Each system is equipped with one Maintenance Section Multifunctional (MSM) and is supported at the division level by a Mobile Maintenance Facility (MMF). The baseline fielded payload was the electro-optic infrared (EO/IR), but half of those were replaced with a Laser Designator (LD) payload. The Army has procured 102 systems through FY2009. This budget line procures modifications including the Congressionally mandated Tactical Common Data Link (TCDL), Payloads upgrades, System Modifications and One System Remote Video Terminal Upgrades.

Implements Congressionally mandated Tactical Common Data link (TCDL) and STANAG 4586, meets the Shadow ORD requirement, and provides a secure data link. TCDL retrofit includes extended wings for the Shadow air vehicles to accommodate the added weight of TCDL data link, procurement of the Universal Ground Control Station (UGCS) and Universal Ground Data Terminal (UGDT), which are required for interoperability. GFE and spares are also included.

The payload(s) carried by the Shadow UAS provides a substantial part of its capability. The first payload upgrade was the previously mentioned LD payload. Development efforts will bring upgraded capabilities through additional payloads to include: signals intelligence (SIGINT); synthnetic aperture radar (SAR); and improved EO/IR/LD. Procurement and fielding of these payloads will use an incremental approach to provide the capability as rapidly as possible. Payloads upgrades are in the Payloads P3a.

System upgrades not included under TCDL or Payloads are in the System Mods P3a Form. Upgrades are generally categorized as Air Vehicle, Ground Control Equipment, and Support Equipment.

OSRVT: The One System Remote Video Terminal (OSRVT) fielded in Shadow systems requires an upgrade to an Increment II OSRVT. The OSRVT upgrade Increment II program of record began in FY12. The OSRVT Increment II consists of a receiver, toughbook computer, antennas, UHF Modem, Type 1 encryption, and an extended range antenna (MDAS). Software supports decoding Telemetry Data from

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

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Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,198.937	165.139	104.339	121.902	-	121.902	167.186	141.196	139.992	151.100	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,198.937	165.139	104.339	121.902	-	121.902	167.186	141.196	139.992	151.100	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,198.937	165.139	104.339	121.902	-	121.902	167.186	141.196	139.992	151.100	Continuing	Continuing
	(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	d elsewhere.)		1	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	4,647.043	41,284.750	-	-	-	-	-	-	-	-	Continuing	Continuing

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## **Description:**

**Shadow Modifications** 

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

P-1 Line Item Nomenclature:

A00018 - RQ-7 UAV MODS

Date: April 2013

Modification Nomenclature

(Modification Number - Modification

Title):

0000 - RQ-7 UAV MODS

Models of Systems Affected: N/A	Type Modification: UNCLASSIFIED	Related RDT&E PEs:
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Models of Systems Affected: N/A		Type I	Modification	on: UNCLA	SSIFIED		Re	lated RDT	&E PEs:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (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												
SHADOW TACTICAL COMMON DATA LINK (TCDL)												
A Kits		-										
Recurring												-
TCDL System Retrofit Kits	62 / 537.393	6 / 49.336	7 / 25.891	7 / 54.858	- / -	7 / 54.858	7 / 45.026	7 / 35.230	4 / 28.946	- / -	- / -	100 / 776.68
UGCS Only System Retrofit	28 / 89.763	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	28 / 89.76
Launchers	42 / 12.027	- / -	7 / 2.901	7 / 2.970	- / -	7 / 2.970	32 / 13.822	7 / 3.078	7 / 3.133	- / -	- / -	102 / 37.93
Software	0 / 10.377	- / 0.697	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 11.07
Pubs/Tech Data	0 / 3.747	- / 0.252	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- /3.99
GFE	0 / 31.770	- /6.000	- / 2.640	- /2.703	- / -	- /2.703	- / 2.751	- /2.801	- / 1.629	- / -	- / -	- / 50.29
Training Equipment	18 / 19.250	- / -	10 / 19.915	6 / 5.686	- / -	6 / 5.686	21 / 20.260	8 / 7.857	- / -	8 / 8.142	- / -	71 / 81.11
Training (NET)	0 / 19.072	- / 2.670	24 / 16.288	- /4.580	- / -	- /4.580	- /8.392	- / 8.544	- / 8.697	- / 8.854	- / -	24 / 77.09
Program Management	0 / 19.988	- / 5.263	- / 9.265	- / 8.568	- / -	- /8.568	- /7.750	- /6.074	- /4.633	- / 1.646	- / -	- / 63.18
Engineeering	0 / 7.945	- /2.091	- / 3.681	- / 3.404	- / -	- /3.404	- / 3.079	- /2.413	- / 1.841	- / 0.654	- / -	- / 25.10
Logistics	0 / 16.140	- /4.245	- /7.474	- / 6.912	- / -	- /6.912	- / 6.252	- /4.900	- / 3.738	- / 1.328	- / -	- / 50.98
Subtotal Recurring	150 / 767.472	6 / 70.554	48 / 88.055	20 / 89.681	- / -	20 / 89.681	60 / 107.332	22 / 70.897	11 / 52.617	8 / 20.624	- / -	325 / 1,267.23
Non-Recurring				•								
Nonrecurring Engineering (NRE)	0 / 27.055	- / 1.819	- / -	- /4.224	- / -	- /4.224	- /4.294	- / -	- / -	- / -	- / -	- / 37.39
Subtotal Non-Recurring	0 / 27.055	- /1.819	- / -	- /4.224	- / -	- /4.224	- /4.294	- / -	- / -	- / -	- / -	- /37.39
Total, SHADOW TACTICAL COMMON DATA LINK (TCDL)	150 / 794.527	6 / 72.373	48 / 88.055	20 / 93.905	- / -	20 / 93.905	60 / 111.626	22 / 70.897	11 / 52.617	8 / 20.624	- / -	325 / 1,304.62
SHADOW SYSTEM MODIFICATIONS			I		ı					ı	ı	
A Kits												
Recurring												_
Attrition Air Vehicles	3 / 2.607	68 / 71.535	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	71 / 74.14
Mission Computer	0 / 0.000	- / -	44 / 3.519	94 / 7.635	- / -	94 / 7.635	94 / 7.772	94 / 7.912	94 / 8.054	64 / 5.583	- / -	484 / 40.47
High Reliability Engine	0 / 0.000	- / -	- / -	- / -	- / -	- / -	70 / 4.533	120 / 7.911	180 / 12.080	210 / 14.347	- / -	580 / 38.87
Tripe Redundant Avionics	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	64 / 7.660	234 / 28.780	- / -	298 / 36.44
Nonrecurring Engineering (NRE)	0 / 2.150	- / -	- / -	- / -	- / -	- / -	- /2.115	- / -	- / -	- / -	- / -	- /4.26
Program Management	0 / 0.000	- /4.334	- / 0.493	- / 0.924	- / -	- / 0.924	- / 1.057	- / 1.656	- / 3.043	- /4.709	- / -	- / 16.21
Engineering	0 / 0.000	- /1.722	- / 0.196	- / 0.367	- / -	- / 0.367	- / 0.420	- / 0.658	- /1.209	- / 1.871	- / -	- / 6.44
Logistics	0 / 0.000	- / 3.496	- / 0.398	- / 0.745	- / -	- / 0.745	- / 0.852	- / 1.336	- /2.455	- /3.799	- / -	- / 13.08
Subtotal Recurring	3/4.757	68 / 81.087	44 / 4.606	94 / 9.671	- / -	94 / 9.671	164 / 16.749	214 / 19.473	338 / 34.501	508 / 59.089	- / -	1,433 / 229.93

LI A00018 - RQ-7 UAV MODS Army UNCLASSIFIED
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Exhibit P-3A, Individual Modification: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 02: Modification of

Aircraft / BSA 10: Modification Of Aircraft

Army

P-1 Line Item Nomenclature:

A00018 - RQ-7 UAV MODS

Date: April 2013

**Modification Nomenclature** 

(Modification Number - Modification

Title):

0000 - RQ-7 UAV MODS

Modele of Systems Affected: N/A Polated PDTSE DEs Type Medification: LINCL ASSISTED

Models of Systems Affected: N/A		Type I	<b>Nodificatio</b>	n: UNCLA	SSIFIED		Re	lated RDT	&E PEs:			
	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M								
Total, SHADOW SYSTEM MODIFICATIONS	3 / 4.757	68 / 81.087	44 / 4.606	94/9.671	- / -	94 / 9.671	164 / 16.749	214 / 19.473	338 / 34.501	508 / 59.089	- / -	1,433 / 229.93
SHADOW PAYLOAD UPGRADES/MODIFICATIONS												
A Kits												
Recurring												_
Laser Designator	106 / 108.850	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	106 / 108.8
SAR	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	16 / 8.624	16 / 8.780	40 / 22.344	- / -	72 / 39.7
SIGINT	0 / 0.000	- / -	- / -	16 / 5.091	- / -	16 / 5.091	- / -	- / -	- / -	- / -	- / -	16 / 5.09
EO/IR/LD Upgrade	0 / 0.000	- / -	- / -	- / -	- / -	- / -	32 / 17.277	32 / 17.588	32 / 17.905	40 / 22.784	- / -	136 / 75.5
Training	0 / 5.700	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.658	- / 1.341	- / -	- /7.69
Program Management	0 / 3.506	- / -	- / -	- / 0.616	- / -	- / 0.616	- / 1.484	- /2.744	- / 2.988	- /4.500	- / -	- / 15.8
Engineering	0 / 1.399	- / -	- / -	- / 0.245	- / -	- / 0.245	- / 0.589	- / 1.090	- / 1.187	- / 1.788	- / -	- /6.2
Logistics	0 / 2.698	- / -	- / -	- / 0.497	- / -	- / 0.497	- / 1.197	- /2.214	- / 2.410	- / 3.630	- / -	- / 12.6
Subtotal Recurring	106 / 122.153	- / -	- / -	16 / 6.449	- / -	16 / 6.449	32 / 20.547	48 / 32.260	48 / 33.928	80 / 56.387	- / -	330 / 271.7
Total, SHADOW PAYLOAD UPGRADES/MODIFICATIONS	106 / 122.153	- / -	- / -	16 / 6.449	- / -	16 / 6.449	32 / 20.547	48 / 32.260	48 / 33.928	80 / 56.387	- / -	330 / 271.7
OSRVT MODIFICATIONS												
A Kits												
Recurring												
OSRVT Retrofit Kits	2,937 / 212.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2,937 / 212.9
OSRVT BI-Directional Retrofit Kits	0 / 0.000	- / -	400 / 10.200	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	400 / 10.20
OSRVT MDAS Antennas	0 / 0.000	- / -	- / -	70 / 5.888	- / -	70 / 5.888	100 / 8.563	95 / 8.280	95 / 8.430	70 / 6.323	- / -	430 / 37.4
MDAS BI-Directional Retrofit Kits	0 / 0.000	- / -	- / -	- / -	- / -	- / -	106 / 2.330	106 / 2.379	106 / 2.415	106 / 2.458	- / -	424 / 9.5
Army TIES Retrofit Kits	470 / 56.900	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	470 / 56.90
Program Management	0 / 7.700	- /4.744	- / 0.600	- / 1.830	- / -	- / 1.830	- / 1.858	- / 1.897	- / 1.927	- / 1.967	- / -	- / 22.5
Logistics/TPF/NET	0 / 0.000	- / 1.553	- / 0.378	- / 3.329	- / -	- / 3.329	- / 4.663	- / 5.150	- / 5.294	- / 3.362	- / -	- / 23.72
Subtotal Recurring	3,407 / 277.500	- /6.297	400 / 11.178	70 / 11.047	- / -	70 / 11.047	206 / 17.414	201 / 17.706	201 / 18.066	176 / 14.110	- / -	4,661 / 373.3
Non-Recurring												
Engineering	0 / 0.000	- /5.382	- / 0.500	- / 0.830	- / -	- / 0.830	- / 0.850	- / 0.860	- / 0.880	- / 0.890	- / -	- / 10.1
Subtotal Non-Recurring	0 / 0.000	- /5.382	- /0.500	- /0.830	- / -	- /0.830	- /0.850	- /0.860	- /0.880	- /0.890	- / -	- /10.1
Total, OSRVT MODIFICATIONS	3,407 / 277.500	- /11.679	400 / 11.678	70 / 11.877	- / -	70 / 11.877	206 / 18.264	201 / 18.566	201 / 18.946	176 / 15.000	- / -	4,661 / 383.5
IOIAI, USRVI MUDIFICATIONS	-,					000 / 101 000	462 / 167.186	485 / 141.196	598 / 139.992	772 / 151.100		7
Total Procurement, All Modifications	3,666 / 1,198.937	74 / 165.139	492 / 104.339	200 / 121.902	- / -	200 / 121.902	4027 107.100	4007 141.190	3307 133.332	7727 131.100	- / -	6,749 2,189.79

**UNCLASSIFIED** LI A00018 - RQ-7 UAV MODS

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P-1 Line #26

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Exhibit P-3A, Individual Modification: PB 2014 ArmyDate: April 2013Appropriation / Budget Activity / Budget Sub Activity:P-1 Line Item Nomenclature:Modification Nomenclature2031A: Aircraft Procurement, Army / BA 02: Modification of AircraftA00018 - RQ-7 UAV MODS(Modification Number - Modification Number - Modification Nimber - Modification

Models of Systems Affected: N/A Type Modification: UNCLASSIFIED Related RDT&E PEs:

	Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Financial Plan	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M )	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M )							
SHADOW TACTICAL COMMON DATA LINK (TCDL) Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
SHADOW SYSTEM MODIFICATIONS Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
SHADOW PAYLOAD UPGRADES/MODIFICATIONS Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
OSRVT MODIFICATIONS Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total Installation Cost	0 / 0.000	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Total Cost (Procurement + Support + Installation)	1,198.937	165.139	104.339	121.902	-	121.902	167.186	141.196	139.992	151.100	-	2,189.791

UNCLASSIFIED
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	bit P-3	3A, lı	ndivi	dual	Modifi	cation:	PB :	2014 Army										Date: A	pril 2013			
203	A: Air	craft	Proc	ureme	ent, Ar		02:	<b>Sub Activi</b> Modificatio			<b>Line Item</b> 0018 - RQ-7							(Modific		nenclature ber - Modifi MODS	cation	
Mod	els of	Syst	tems	Affe	cted: 1	I/A			Тур	e Modi	ification: U	INCLASS	SIFIE	:D		Re	elated RI	OT&E PEs	:			
Manu	facture	r Info	rmatio	n: SH	ADOW 1	ACTICA	L COI	MMON DATA	LINK (	TCDL)						'						
Manu	facturer	Name	e: AAI									Ma	anufac	cturer Location	n: Hunt Val	ley, M	ID					
Admi	nistrative	e Lead	dtime (	in Mon	ths): 7							Pro	oduction	ion Leadtime	(in Months)	: 15						
	Date	es			FY 2	)12		FY 201	3		FY 2014			FY 2015		FY	2016	F	Y 2017	F`	Y 2018	_
Contr	act Date	es			Aug 2	012		Jun 20	13		Mar 2014											_
Deliv	ery Date	es			Feb 2			Apr 20	15		Jun 2015											_
	lation: f	SHAD	OW T	ACTIC	AL COM	IMON DA	TAII	NK (TCDL)	Meth	nod of Im	nplementation	n: FFP Con	ntract			Ins	stallation N	lame:				
Insta	iation: 3																					
Insta	iation: 3	011712			7.12 00.1.	Prior '		FY 2012		′ 2013	FY 2014 Base	FY 201	4	FY 2014 Total	FY 2015		FY 2016	FY 2017	FY 2018	To Complete	Tota	
	lation: \$				, <u>12 00</u>		Years	FY 2012  Qty (Each) /	FY Qty		FY 2014	FY 201	4		FY 2015  Qty (Each) / Total Cost (\$ A	F			Qty (Each) /	Complete  Qty (Each) /	Qty (Eac	ch)
	lation C					Prior `Qty (E	Years	FY 2012  Qty (Each) / Total Cost (\$ M	FY Qty Total	<b>' 2013</b> (Each) /	FY 2014 Base Qty (Each) /	FY 201 OCO Qty (Each Total Cost (\$	4 n) / \$ M ) To	Total  Qty (Each) /	Qty (Each) /	F C Tota	FY 2016  Qty (Each) /	<b>FY 2017</b> Qty (Each) /	Qty (Each) / Total Cost (\$ M	Oty (Each) / Total Cost (\$ M	Qty (Eac ) Total Cost (	ch) /
Insta All Prio FY 201	lation C					Prior `Qty (E	Years ach) / st (\$ M) 0 / 0.000	FY 2012  Oty (Each) / Total Cost (\$ M  0 / 0.00	FY Qty Total	' 2013 (Each) / Cost (\$ M) 0 / 0.000	FY 2014 Base  Qty (Each) / Total Cost (\$ M )  0 / 0.000	FY 2010 OCO Oty (Each Total Cost (\$ - /	4 (5) / (5) M ) To	Total  Qty (Each) / Fotal Cost (\$ M)  0 / 0.000  - / -	Qty (Each) / Total Cost (\$ M	F C Tota	FY 2016  Qty (Each) / all Cost (\$ M)  0 / 0.000  - / -	FY 2017  Qty (Each) / Total Cost (\$ M )  0 / 0.000	Qty (Each) / Total Cost (\$ M	Omplete  Oty (Each) / Total Cost (\$ M 0 0 / 0.00 - / -	Qty (Eac Total Cost (	ch) / t (\$ I / 0.0
Insta All Prio FY 201 FY 201	lation C Years					Prior	Years ach) / st (\$ M) 0 / 0.000 0 / 0.000	FY 2012  Oty (Each) / Total Cost (\$ M  0 / 0.00  - / -  - / -	FY Qty Total	' 2013 (Each) / Cost (\$ M) 0 / 0.000 - / -	FY 2014 Base Qty (Each) / Total Cost (\$ M ) 0 / 0.000	FY 2010 OCO  Qty (Each Total Cost (\$ - / - / - /	4 5 M) To	Total  Oty (Each) / Fotal Cost (\$ M)  0 / 0.000  - / -  - / -	Qty (Each) / Total Cost (\$ \int 0 / 0.0 - / - / -	F CO Tota	FY 2016  Outy (Each) / Pal Cost (\$ M )  0 / 0.000  - / -  - / -	FY 2017  Qty (Each) /  Total Cost (\$ M )  0 / 0.000  - / -  - / -	Qty (Each) / Total Cost (\$ M	Complete	Qty (Eac 70tal Cost (0 0 0 /	ch) / t (\$ / / 0.0
Insta All Prio FY 201 FY 201 FY 201	lation C Years 2 3					Prior	Years ach) / st (\$ M ) 0 / 0.000 0 / 0.000 0 / 0.000	FY 2012  Oty (Each) / Total Cost (\$ M	FY Qty Total	' 2013 (Each) / Cost (\$ M) 0 / 0.000 - / - - / -	FY 2014 Base Qty (Each) / Total Cost (\$ M ) 0 / 0.000 - / / -	FY 201- OCO  Qty (Each; Total Cost (\$ - / - / - /	4 (a) / (b) / (c)	Total  Qty (Each) /  Fotal Cost (\$ M)  0 / 0.000  - / -  - / -  - / -	Qty (Each) / Total Cost (\$ \( \) \(	GOO	FY 2016  Dty (Each) / real Cost (\$ M )  0 / 0.000  - / -  - / -  - / -	FY 2017  Oty (Each) /  Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -	Qty (Each) / Total Cost (\$ M 0 / 0.00 - / / / -	Complete  Qty (Each) / Total Cost (\$ M 0 0 / 0.00 - / / / -	Qty (Eac 70tal Cost (0 0 0 / - -	ch) / t (\$ / / 0.0
Insta All Prio FY 201 FY 201 FY 201 FY 201	Vears 2 3					Prior Co.	Years ach) / st (\$ M ) 0 / 0.000 0 / 0.000 0 / 0.000 0 / 0.000 0 / 0.000	FY 2012  Oty (Each) / Total Cost (\$ M 0 / 0.00 - /	FY Qty Total	' 2013 (Each) / Cost (\$ M) 0 / 0.000 - / - - / - - / -	FY 2014 Base Qty (Each) / Total Cost (\$ M ) 0 / 0.000 - / / / / -	FY 201- OCO Oty (Each Total Cost (\$ - / - / - / - /	4	Total  Qty (Each) / Fotal Cost (\$ M)  0 / 0.000  - / -  - / -  - / -  - / -	Qty (Each) / Total Cost (\$ A 0 / 0.0 - / - / / / / / / / / / / / - / / / / / / / - / / / / - / / / / / / / / / / /	GO Total	FY 2016  Outy (Each) / rail Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -	FY 2017  Qty (Each) / Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -	Qty (Each) / Total Cost (\$ M ) 0 / 0.00 - / / / / -	Complete  Qty (Each) / Total Cost (\$ M 0 0 0 / 0.00 - / / / / -	Qty (Eac 70tal Cost (0 0 /	ch) / f (\$ / / 0.0 / - / -
Insta All Prio FY 201 FY 201 FY 201	lation C Years 2 3 4 5					Prior Co.	Years ach) / st (\$ M ) 0 / 0.000 0 / 0.000 0 / 0.000	FY 2012  Oty (Each) / Total Cost (\$ M 0 / 0.00 - /	FY Qty Total	' 2013 (Each) / Cost (\$ M) 0 / 0.000 - / - - / -	FY 2014 Base Qty (Each) / Total Cost (\$ M ) 0 / 0.000 - / / -	FY 201- OCO  Qty (Each; Total Cost (\$ - / - / - /	4   To   To   To   To   To   To   To   T	Total  Qty (Each) /  Fotal Cost (\$ M)  0 / 0.000  - / -  - / -  - / -	Qty (Each) / Total Cost (\$ \( \) \(	CO Tota	FY 2016  Dty (Each) / real Cost (\$ M )  0 / 0.000  - / -  - / -  - / -	FY 2017  Oty (Each) /  Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -	Qty (Each) / Total Cost (\$ M 0 / 0.00 - / / / -	Complete  Qty (Each) / Total Cost (\$ M 0 0 / 0.00 - / / / -	Qty (Eac Total Cost (0 0 0 /	ch) / f (\$ / / 0.0 / - / - / -
Insta All Prio FY 201 FY 201 FY 201 FY 201	Vears  2  3  4  5					Prior Cy (E	Years ach) / st (\$ M ) 0 / 0.000 0 / 0.000 0 / 0.000 0 / 0.000 0 / 0.000 0 / 0.000	FY 2012  Oty (Each) / Total Cost (\$ M 0 / 0.00 - /	FY Qty Total	' 2013 (Each) / Cost (\$ M) 0 / 0.000 - / - - / - - / - - / -	FY 2014 Base Qty (Each) / Total Cost (\$ M )  0 / 0.000 - / / / / / -	FY 201- OCO Oty (Each: Total Cost (\$ - / - / - / - / - /	4	Total  Qty (Each) / Fotal Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -	Qty (Each) / Total Cost (\$ \) 0 / 0.0 - / / / / / -	F C C Tota	FY 2016  Outy (Each) / all Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -	FY 2017  Qty (Each) /  Total Cost (\$ M )  0 / 0.000  - / -  - / -  - / -  - / -  - / -	Oty (Each) / Total Cost (\$ M ) 0 / 0.00 - / / / / / / -	Complete  Qty (Each) / Total Cost (\$ M 0 0 / 0.00 0 - / - / - / - / / / / / / / / / / / - / / / / / / / / / / / - / / / / / / / / / / / -	Qty (Eac 70tal Cost (0 0 /	ch) / f (\$ // / 0.0 / - / - / - / -
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Exhil	oit P-	3A, I	ndivi	dual	Modif	icatio	on: P	B 20	)14 Arn	ny													Da	ite: A	pril 201	3				
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Manuf	acture	r Name	e: AAI													Manuf	acture	er Location	on: Hu	unt Valle	y, MD									
Admin	istrativ	e Lead	dtime (i	n Mon	ths): 6											Produ	ction L	eadtime	(in M	fonths):	12									
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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013

## Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA AZ3504 - Aircraft Survivability Equipment

10: Ground Support Avionics

ID Code (A=Service Ready, B=Not Service Ready) :

**Program Elements for Code B Items:** 

**Other Related Program Elements:** 

MDAP/MAIS Code(s):

Pagaliras Summari	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Resource Summary	Tears	F1 2012	F1 2013	Dase	000	IOlai	F1 2015	F1 2010	F1 2017	F1 2010	Complete	iolai
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	617.981	35.993	34.037	47.610	-	47.610	54.504	52.789	53.762	8.600	607.700	1,512.976
Less PY Advance Procurement (\$ in Millions)	11.565	-	-	-	-	-	-	-	-	-	-	11.565
Net Procurement (P1) (\$ in Millions)	606.416	35.993	34.037	47.610	-	47.610	54.504	52.789	53.762	8.600	607.700	1,501.411
Plus CY Advance Procurement (\$ in Millions)	11.565	-	-	-	-	-	-	-	-	-	-	11.565
Total Obligation Authority (\$ in Millions)	617.981	35.993	34.037	47.610	-	47.610	54.504	52.789	53.762	8.600	607.700	1,512.976
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	he corresponding	budget request	s are documente	d elsewhere.)	(4	·	

	(The following R	esource Sumi	mary rows are fo	or informational p	urposes only. Ti	he corresponding	g budget request	s are documented el	sewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	ı	-	-	-	-	-	-	ı	ı	-	-

 $<sup>^{\#}</sup>$  FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **Description:**

The Aircraft Survivability Equipment (ASE) budget line includes ASE Laser Countermeasures (AZ3508), ASE Trainers (AZ3506), and ASE Radio Frequency Countermeasures (AZ3511).

The AN/AVR-2B Laser Countermeasure (LCM) is a passive threat laser warning system that alerts the aircrew that they are being targeted by threat forces allowing the aircrew to engage the target or maneuver to break the targeting. The system detects aircraft illumination by laser rangefinders, laser designators, and laser beam rider surface to air missiles. The system provides the aircrew visual and audio warnings according to threat lethality using 360 degree azimuth and 90 degree elevation field of view coverage.

Fiscal Year (FY)14 Base procurement dollars in the amount of \$44.944 million procures AN/AVR-2B A-Kits, B-Kits, integration with other ASE systems, and installation for selected aircraft platforms in support of required operational capabilities. This includes UH-60L A-Kits and A-Kit installs, and the start of CH-47 A-Kits and A-Kit installs.

#### All COMPO 1 Active

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 Aircraft Survivability Equipment Trainers are non-system ASE Training Devices. A current Program of Record (POR) is the Man-portable Aircraft Survivability Trainer (MAST). The MAST provides forceon-force training by stimulation of the onboard Common Missile Warning System (CMWS) at the Maneuver Combat Training Centers (MCTC). The aircraft training against the MAST include the Apache, Chinook, Kiowa Warrior, Blackhawk, and Fixed Wing platforms.

Fiscal Year (FY)14 Base Procurement dollars in the amount of \$2.666 million supports engineering changes, testing, fielding, and salaries for the MAST system.

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

							UNG	CLASS	SIFIED	)									
Appropriation / Budget Activity / Budget Sub Activity:  031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 0: Ground Support Avionics  0 Code (A=Service Ready):  Program Elements for Code B Items:  Other Related Program Elements:    Other Related Program Elements:																			
Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army  Appropriation / Budget Activity / Budget Sub Activity:  1031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA  10: Ground Support Avionics  10: Ground Support																			
ID Code (A=Service Ready, B=Not Service Rear	dy) :			[1	Program	Element	ts for Cod	le B Items	s:			Oth	er Relate	d Prograi	n Eleme	nts:			
MDAP/MAIS Code(s):																			
Itom Sobodulo			rior Voc	70		EV 2012		1	EV 2012		E	/ 2014 Pa		Ex	/ 2014 O	00	EX	/ 2014 T	otal
item schedule		Unit Cost			Unit Cost			Unit Cost											
Item Nomenclature* Exhibits	CD														(Each)				
					-		+	-	-			-		+		-			
		-	-	_	-	-	+	-	-	_	-	-			-	-	-	-	
System Cost				017.501			33.333			34.037			47.010						47.010

LI AZ3504 - Aircraft Survivability Equipment Army

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Exhibit P-5, Cost Analysis: PB 2014 Army

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item Name, DODIC):

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics

AZ3504 - Aircraft Survivability Equipment

AZ3508 - ASE Laser CM

Date: April 2013

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	255.843	32.156	32.639	44.944	-	44.944
Less PY Advance Procurement (\$ in Millions)	11.565	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	244.278	32.156	32.639	44.944	-	44.944
Plus CY Advance Procurement (\$ in Millions)	11.565	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	255.843	32.156	32.639	44.944	-	44.944

(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 (Units in Thousands)

- Company of the corresponding budget requests are documented elsewhere.

- Company of the corresponding budget requests are documented elsewhere.

- Company of the corresponding budget requests are documented elsewhere.

- Company of the corresponding budget requests are documented elsewhere.

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

		Al	l Prior Yea	ırs		FY 2012			FY 2013		F	/ 2014 Bas	se	F	/ 2014 OC	0	F	/ 2014 Tota	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost																			
Recurring Cost																			
Recurring Production		-	-	216.498	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manufacturing		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non Recurring Production A-Kit		-	-	-	-	-	6.000	-	-	-	-	-	-	-	-	-	-	-	-
† A-Kit Procurement		-	-	3.808	25.000	44	1.100	29.000	52	1.508	38.000	135	5.130	-	-	-	38.000	135	5.1
A-Kit Installation		-	-	7.089	-	-	2.729	-	-	3.711	74.000	133	9.853	-	-	-	74.000	133	9.8
† B-Kit Procurement		-	-	20.656	135.000	126	17.010	145.000	142	20.590	150.000	150	22.543	-	-	-	150.000	150	22.5
Other Recurring Production		-	-	-	-	-	0.021	-	-	-	-	-	0.225	-	-	-	-	-	0.2
Prime Contractor Program Mgt		-	-	-	-	-	1.335	-	-	1.860	-	-	0.885	-	-	-	-	-	8.0
Systems Engineering/ Program Mgt		-	-	3.452	-	-	2.138	-	-	2.310	-	-	4.470	-	-	-	-	-	4.4
Systems Test and Evaluation		-	-	1.908	-	-	1.300	-	-	2.137	-	-	1.823	-	-	-	-	-	1.8
Training		-	-	0.150	-	-	0.075	-	-	0.075	-	-	-	-	-	-	-	-	
Data		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Support Equipment		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fielding		-	-	2.282	-	-	0.448	-	-	0.448	-	-	0.015	-	-	-	-	-	0.0
Modification Efforts		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Recurring Cost				255.843			32.156			32.639			44.944			-			44.9
Total Flyaway Cost				255.843			32.156			32.639	İ		44.944			-			44.9

LI AZ3504 - Aircraft Survivability Equipment Army

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<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Exhibit P-5, Cost Analysis: PB 2014 Army

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics

Appropriation / Budget Activity / Budget Sub Activity:

AZ3504 - Aircraft Survivability Equipment

Name, DODIC): AZ3508 - ASE Laser CM

Date: April 2013

		Al	l Prior Yea	ars		FY 2012			FY 2013		F۱	/ 2014 Bas	e	F`	/ 2014 OCC	)	FY	Y 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	UIIIL COSL	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Gross Weapon System Cost				255.843			32.156			32.639			44.944			-			44.944

#### P-5 Remarks:

Seco	ondary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	32.156	32.639	44.944	-	44.944

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics

AZ3504 - Aircraft Survivability Equipment

AZ3508 - ASE Laser CM

Cost Elements († indicates the presence of a P-21)	0 0	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revsn	RFP Issue Date
†A-Kit Procurement		2012	SESI / Huntsville, AL	SS / FFP	LSFMA, Redstone Arsenal, AL	Feb 2012	Aug 2012	44	25.000			
†A-Kit Procurement		2013	TBD / TBD	TBD	TBD	May 2013	Nov 2013	52	29.000			
†A-Kit Procurement		2014	TBD / TBD	TBD	TBD	Jan 2013	Oct 2013	135	38.000			
†B-Kit Procurement		2012	Goodrich / Danbury, CT	SS / FFP	CECOM, APG	Jan 2012	Oct 2012	126	135.000			
†B-Kit Procurement		2013	Goodrich / Danbury, CT	SS / FFP	AMCOM Contracting Command, RSA	Apr 2013	Jan 2014	142	145.000			
†B-Kit Procurement		2014	Goodrich / Danbury, CT	SS / FFP	AMCOM Contracting Command, RSA	Jan 2014	Oct 2014	150	150.000			

#### Remarks:

The increase in unit price for the B-Kits in FY 2012 reflects the beginning of a procurement mix of both 4 and 6 sensor B-Kits for installation on different aircraft platforms.

Exhibit P-21, Budget Production Schedule: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics

AZ3504 - Aircraft Survivability Equipment

Item Nomenclature:

Date: April 2013

AZ3508 - ASE Laser CM

			Cost Elem (Units in E									Fiscal Y	ear 2012											Fiscal Y	ear 2013						
			(	,	ACCEP										alendar	Year 201	2									dar Year	2013				<u> </u>
0 C 0	M F R	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	0 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	J U	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-K	it Pro	curemer	nt																												
	1	2012	ARMY	44	-	44	-	-	-	-	Α -	-	-	-	-	-	10	10	10	10	4										-
	2	2013	ARMY	52	-	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- [	-	-	-	A -	-	-	-	-	5
	2	2014	ARMY	135	-	135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Α -	-	-	-	-	-	-	-	-	13
B-K	it Pro	curemer	nt	,					,			•																			
	3	2012	ARMY	126	-	126	-	-	-	A -	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	10	
	3	2013	ARMY	142	-	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-	Α -	-	-	-	-	-	14
	3	2014	ARMY	150	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-	-	-	-	-	-	-	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

Army

Exhibit P-21, Budget Production Schedule: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 04: Support AZ3504 - Aircraft Survivability Equipment AZ3508 - ASE Laser CM Equipment and Facilities / BSA 10: Ground Support Avionics Cost Elements Fiscal Year 2014 Fiscal Year 2015 (Units in Each) ACCEP Calendar Year 2014 Calendar Year 2015 PRIOR BAL М 0 C 0 В F DUE 0 TO 1 ŭ PROC OCT AS OF C E Ε A R P R Ü U E C 0 V Е Р U U E R 0 V A Y U A N Е A R A L A N FY SERVICE<sup>‡</sup> QTY R N # 2013 1 OCT G A-Kit Procurement ARMY 44 44 2012 -52 52 2 . 2 ARMY 10 10 10 10 10 2013 15 15 15 2 ARMY 135 135 15 15 15 15 15 15 2014 -**B-Kit Procurement** 120 6 -3 2012 ARMY 126 6 3 2013 ARMY 142 142 10 10 10 10 10 10 10 10 10 10 10 10 10 10 2 -3 ARMY 150 150 Α -10 10 10 10 10 10 10 10 10 10 30 0 D E A P A U S 0 A U S E В E Ù E Α Ū 0 Ū Ū Α Α Α Ε Α Α Α R R R G

Exhibit P-21, Budget Production Schedule: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics

AZ3504 - Aircraft Survivability Equipment

AZ3508 - ASE Laser CM

		Produc	tion Rates (Each /	Month)				Procurement Lea	adtime (Months)			
						Init	ial			Reo	rder	
MFR #	MFR Name - Location	MSR	1-8-5	MAX	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	SESI - Huntsville, AL	30.00	125.00	250.00	-	12	-	12	-	12	-	12
2	TBD - TBD	30.00	125.00	250.00	-	12	-	12	-	12	-	12
3	Goodrich - Danbury, CT	60.00		240.00	-	1	-	1	-	1	-	1

<sup>&</sup>quot;A" in the Delivery Schedule indicated the Contract Award Date.

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA AZ3507 - Survivability CM

10: Ground Support Avionics

ID Code (A=Service Ready, B=Not Service Ready) :

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

MDAP/MAIS Code(s):

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3,449.620	-	-	5.700	-	5.700	-	-	-	-	2,551.068	6,006.388
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	3,449.620	-	-	5.700	-	5.700	-	-	-	-	2,551.068	6,006.388
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,449.620	-	-	5.700	-	5.700	-	-	-	-	2,551.068	6,006.388
	(The following	g Resource Sum	nmary rows are fo	or informational p	ourposes only. Th	he corresponding	g budget request	ts are documente	ed elsewhere.)	1	1	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	_	_	_	_	_	_	_	_	_	_	_	_

	( I ne following i	Resource Sumi	mary rows are to	or informational p	urposes only. 11	ne corresponaing	j buaget request	s are documented e	isewnere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

 $<sup>^{\#}</sup>$  FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **Description:**

The US Army operational requirements concept for 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, and an Improved Countermeasure Dispenser (ICMD) serving as a subsystem to a host aircraft.

The CMWS subprogram is a UV missile warning system that cues both flare and laser countermeasures to defeat incoming IR missiles and will provide a limited ability to warn aircrews of incoming unquided munitions. The B-Kit consists of the components which perform the missile detection and aircrew notification, unquided munitions detection and aircrew notification, false alarm rejection, hostile missile declaration, and countermeasure employment 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 alert crewmen 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 (CH-47 platform only). In addition, the CMWS ECU receives detections of unquided munitions which it then passes 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 will meet Tier 1 requirements while retaining a low false alarm rate. The Gen 3 ECU is required to obtain 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.

The ATIRCM/CMWS program was restructured per an Under Secretary of Defense for Acquisition, Technology, and Logistics (USD(AT&L)) Acquisition Decision Memorandum (ADM) dated 15 April 2009. USD(AT&L) designated the ATIRCM/CMWS program as an Acquisition Category (ACAT) 1D special interest program and directed the establishment of the CMWS, ATIRCM QRC and Common Infrared Countermeasure (CIRCM) subprograms. On 3 September 2010 Mr Kendall, Principal Deputy to the USD(AT&L), Acting DAE signed an ADM approving the reinstatment of the MS C for CMWS and redesignating the ATIRCM QRC and CMWS subprograms as ACAT 1C. Mr Kendall also approved new baselines for each subprogram.

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

								0111	LAUC		•									
Exhibit P	-40, Bud	lget Item Ju	stification	Sheet	: PB 2014	1 Army									Date	: April	2013			
2031A: Ai	rcraft Pr	Budget Activocurement, Aprt Avionics					and Fad	cilities / I			Item No - Surviva									
ID Code (A=S	Service Ready	, B=Not Service Rea	dy) :		ı	Program	Element	s for Cod	e B Items	s:			Oth	er Relate	d Prograr	n Eleme	nts:			
MDAP/MAIS	Code(s):				1															
Secon	dary Dis	tribution	FY 201	2	FY 2013	3	FY 201 Base		FY 201 OCO		FY 20 <sup>-</sup> Tota		FY 20	015	FY 20	)16	FY 2	017	FY:	2018
Army	Quantity			-		-		-		-		-		-		-		-		-
-	Total Ob	igation Authority		-		-		5.700		-		5.700		-		-		-		-
I	tem Sche	dule		Prior Ye	ars		FY 2012			FY 2013	3	FY	2014 Ba	ase	FY	2014 O	СО	FY	2014 To	otal
			ID Unit Cos		Total Cost		Qty		Unit Cost	Qty	Total Cost		Qty		Unit Cost	Qty	Total Cost		Qty	Total Cost
Item Nomer AZ3507 - Surviva		Exhibits P5	CD (\$K)	(Each)	(\$ M ) 3,449.620	(\$ K )	(Each)	(\$ M )	(\$ K )	(Each)	(\$ M )	(\$ K )	(Each)	(\$ M ) 5.700	(\$ K )	(Each)	(\$ M)	(\$ K )	(Each)	(\$ M ) 5.700
Total Gross/We		F5	-	+ -	3,449.620	-	-	-	-	-	-	-		5.700		-	-	-		5.700
System Cost		sents Item Numbe																		
Justificat Database		14 program fund	ding entered	in error.	Funds shou	ld reside	in AZ351	7 - CMW\$	S.											

LI AZ3507 - Survivability CM Army

Exhibit P-5, Cost Analysis: PB 2014 Army

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item Name, DODIC):

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics

AZ3507 - Survivability CM

AZ3507 - Survivability CM

Date: April 2013

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	3,449.620	-	-	5.700	-	5.700
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	3,449.620	-	-	5.700	-	5.700
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	3,449.620	-	-	5.700	-	5.700

(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 (Units in Thousands) \_ \_ -

<sup>##</sup> The EV 2014 OCO Pequest will be submitted at a later date

		All	Prior Yea	rs		FY 2012			FY 2013		F'	Y 2014 Bas	se	F	Y 2014 OC	0	FY 2014 Total		
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Tota Cos (\$ M
lyaway Cost																			
Recurring Cost																			
CMWS A-kit Procurement		-	-	245.503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CMWS A-kit Installation		-	-	189.842	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CMWS B-kit Production		-	-	648.084	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Government Furnished Equipment (GFE)		-	-	25.404	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other Recurring Production (Software)		-	-	99.925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Systems Engineering/ Program Management		-	-	118.252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Systems Test and Evaluation		-	-	86.520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Training		-	-	52.880	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Data		-	-	17.363	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Support Equipment		-	-	14.216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fielding		-	-	151.305	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CMWS Gen 3 ECU Hardware		-	-	37.947	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Other Modifications		_	_	131.399	_	_	_	_	_	_	_	_	_	_	_	_	_	_	

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<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Exhibit P-5, Cost Analysis: PB 2014 Army

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics

AZ3507 - Survivability CM

Name, DODIC): AZ3507 - Survivability CM

Date: April 2013

<u> </u>																						
		Al	l Prior Yea	ars		FY 2012			FY 2013		F`	Y 2014 Bas	se	F`	Y 2014 OC	)	F`	Y 2014 Tot	al			
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)			
Other Procurement CMWS		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
IR Suppressor Kits		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
HF QRC		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Recurring Production		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Other Procurement		-	-	1,302.400	-	-	-	-	-	-	-	-	5.700	-	-	-	-	-	5.70			
Nonrecurring Production		-	-	140.380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ATIRCM QRC A-kit / B-kit Procurement		-	-	48.662	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ATIRCM QRC A-kit Installation		-	-	17.216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
System Engineering/ Program Management		-	-	50.712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
System Test and Evaluation		-	-	71.610	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Total Recurring Cost				3,449.620			-			-			5.700			-			5.70			
Total Flyaway Cost				3,449.620			-			-			5.700			-			5.70			
Gross Weapon System Cost				3,449.620			-			=			5.700			-			5.700			

#### P-5 Remarks:

. c . te.mainte.						
	Secondary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Army	Quantity	-	-	-	-	-
	Total Obligation Authority	-	-	5.700	-	5.700

LI AZ3507 - Survivability CM Army

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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA AZ3517 - CMWS

10: Ground Support Avionics

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements: 0604274A

MDAP/MAIS Code(s):

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	104.251	127.751	126.869	-	126.869	149.073	192.472	155.324	50.107	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	104.251	127.751	126.869	-	126.869	149.073	192.472	155.324	50.107	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	104.251	127.751	126.869	-	126.869	149.073	192.472	155.324	50.107	Continuing	Continuing
	(The following	g Resource Sum	mary rows are fo	or informational p	ourposes only. Ti	he corresponding	g budget request	s are documente	ed elsewhere.)	î	3	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### **Description:**

The US Army operational requirements concept for 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 and 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 countermeasures to defeat incoming IR missiles and will provide a limited ability to warn aircrews of incoming unguided munitions. The B-Kit consists of the components which perform the missile detection and aircrew notification, unquided munitions detection and aircrew notification, false alarm rejection, hostile missile declaration, and countermeasure employment 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 alert crewmen 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 (CH-47 platform only). In addition, the CMWS ECU receives detections of unquided munitions which it then passes 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 will meet Tier 1 requirements while retaining a low false alarm rate. The Gen 3 ECU is required to obtain 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.

CMWS will continue to spend RDT&E funds on the next generation sensor studies, new algorithm updates (Tier 2/3 upgrades) to counter new variants, missiles, and program security initiatives. The sensor studies will evaluate current CMWS technology as compared to the Navy Joint Allied Threat Awareness System (JATAS) program and other service missile warning systems and look at the pros and cons of UV missile warning sensors compared to infrared missile warning sensors for Army aircraft. The study will also examine other technologies to possibly enhance the CMWS UV sensor with either an IR or acoustic adjunct to determine possible cost savings to the United States Government (USG).

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

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-40, Bu	dget Item Ju	stific	cation	Sheet:	PB 201	4 Army									Date	: April	2013			
rcraft P	rocurement, A						and Fa	cilities / I					ature:		ı					
		ady) :				Program	Element	s for Cod	le B Items	s:			Oth	er Relate	d Prograr	n Eleme	nts: 0604	274A		
Code(s	):				I															
dary Di	stribution	ı	FY 2012	:	FY 201	3	FY 2014 I Base			FY 2014 OCO			FY 20	015	FY 20	016	FY 2	017	FY 2018	
Army Quantity		-								-				-	-		-		-	
Total O	bligation Authority	L,	104	4.251	12	27.751	1	26.869		-		126.869		149.073		192.472		155.324		50.107
tem Sch	edule		P	Prior Yea	ırs		FY 2012	!		FY 2013	3	F	Y 2014 B	ase	FY	2014 O	СО	F	2014 To	otal
nclature*	Exhibits	ID CD	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost	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
3	P5, P5A, P21		-	-	-	-	-	104.251	-	-	127.751	-	-	126.869	-	-	-	-	-	126.869
apon					-			104.251			127.751			126.869			-			126.869
tem Sch	edule	FY 2015			5	FY 2016				FY 2017	7		FY 2018	3	To	Compl	ete		Total	
nclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
3	P5, P5A, P21		-	-	-	-	-	-	-	-	-	-	-	-		Continuing	1		Continuing	3
apon					149.073			192.472			155.324			50.107		Continuin	g		Continuin	g
lature rep	resents Item Numbe	er, DO	DIC, and I	tem Name	e for the P40	0A and P5;	Name for	the P18 and	d P23; Mod	ification N	lumber and	Modificatio	n Title for	the P3A; Ite	em Number	and Item	Name for the	ne P10.		
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II materia O 1 Activ	al release, associate  Section 1815 of	ated s	system te Y 2008 N	st and e	valuation e Defense Au	efforts, tra	ining sim	ulator upg L. 110-18 <sup>2</sup>	rades, and	d integra	tion with of	ther ASE	systems.						·	
	dary Di  Guantit  Total O  tem Sch  clature*  apon  lature reprise xiii  on: r (FY)14    materia  D 1 Activ  nce with	craft Procurement, Ad Support Avionics Service Ready, B=Not Service Ready Code(s):  dary Distribution Quantity Total Obligation Authority tem Schedule  sclature* Exhibits P5, P5A, P21  apon  lature represents Item Numbits Exhibit P-40 set may no on: r (FY)14 Base procurement Il material release, associated and active active and active active and active acti	craft Procurement, Army d Support Avionics Service Ready, B=Not Service Ready): Code(s):  dary Distribution Quantity Total Obligation Authority  tem Schedule  clature* Exhibits P5, P5A, P21  apon  lature represents Item Number, DO this Exhibit P-40 set may not be exon: r (FY)14 Base procurement do Il material release, associated so D 1 Active  nce with Section 1815 of the F	Action / Budget Activity / Budget recraft Procurement, Army / BA 0 of Support Avionics  Service Ready, B=Not Service Ready):  Code(s):   Action / Budget Activity / Budget Subsection / Budget Activity / Budget Subsection / BA 04: Support Avionics  Service Ready, B=Not Service Ready):  Code(s):    Code(s):	Activity / Budget Sub Activity / Broad Support Equal of Support Avionics (Service Ready, B=Not Service Ready):    Code(s):	dary Distribution  Quantity Total Obligation Authority  Exhibits PF, P5A, P21  Total Unit Cost (SK)  Total Cost (SK)  P5, P5A, P21  Total Cost (SK)  P5, P5A, P21  Total Cost (SK)  Total Cost (S	Action / Budget Activity / Budget Sub Activity: Toraft Procurement, Army / BA 04: Support Equipment and Factor Support Avionics  Grevice Ready, B=Not Service Ready):  Program Element  Code(s):  Todal Obligation Authority  Total Cost (SM)  Total Cost (S	Ation / Budget Item Justification Sheet: PB 2014 Army  Ation / Budget Activity / Budget Sub Activity:  Arcraft Procurement, Army / BA 04: Support Equipment and Facilities / Id Support Avionics  In Code(s):    Program Elements for Code(s):   Program Elements for Code(s):	Ation / Budget Item Justification Sheet: PB 2014 Army  ation / Budget Activity / Budget Sub Activity:  created Procurement, Army / BA 04: Support Equipment and Facilities / BSA Active Support Avionics  Program Elements for Code B Items  Program Elements for Code B Items  FY 2012  FY 2013  Base  OCO  Quantity  Total Obligation Authority  104.251  Prior Years  FY 2012  Exhibits  CD  Unit Cost (SK)  (SK) (Each) (SK) (SK) (Each) (SK) (SK) (Each) (SK) (SK) (Each) (SK) (Each) (SK) (SK) (SK) (SK) (SK) (SK) (SK) (SK	Ation / Budget Item Justification Sheet: PB 2014 Army ation / Budget Activity / Budget Sub Activity: Craft Procurement, Army / BA 04: Support Equipment and Facilities / BSA days and Support Avionics  Program Elements for Code B Items:  Code(s):    Program Elements for Code B Items:	Action / Budget Activity / Budget Sub Activity:  Toraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA described and Support Avionics  Program Elements for Code B Items:  Code(s):  Progra	Ado, Budget Item Justification Sheet: PB 2014 Army  ation / Budget Activity / Budget Sub Activity: craft Procurement, Army / BA 04: Support Equipment and Facilities / BSA d Support Avionics  arvice Ready; 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 P-1 Line #29
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Exhibit P-5, Cost Analysis: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics AZ3517 - CMWS

Name, DODIC): AZ3517 - CMWS

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	104.251	127.751	126.869	-	126.869	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	-	104.251	127.751	126.869	-	126.869	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	104.251	127.751	126.869	-	126.869	-	-	-	-	Continuing	Continuing
	(The following	g Resource Sum	mary rows are fo	or informational p	ourposes only. Ti	he corresponding	budget request	ts are documente	ed elsewhere.)		•	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	_

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Army

		All Prior Years			FY 2012				FY 2013		F`	/ 2014 Bas	se e	F	Y 2014 OC	0	F١	/ 2014 Total	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost									,										
Recurring Cost																			
† CMWS A-Kit Fixed Wing Procurement		-	-	-	-	-	-	-	-	-	446.000	12	5.348	-	-	-	446.000	12	5.34
CMWS A-Kit Fixed Wing Installation		-	-	-	-	-	-	-	-	-	-	-	5.970	-	-	-	-	-	5.97
† CMWS A-Kit Rotary Wing Procurement		-	-	-	-	-	-	291.000	84	24.457	-	-	-	-	-	-	-	-	-
CMWS A-Kit Rotary Wing Installation		-	-	-	-	-	-	-	-	12.247	-	-	11.652	-	-	-	-	-	11.65
Other Recurring Production (Software)		-	-	-	-	-	30.410	-	-	19.603	-	-	41.162	-	-	-	-	-	41.16
Engineering Changes		-	-	-	-	-	-	-	-	-	-	-	6.640	-	-	-	-	-	6.64
Systems Engineering/ Program Management		-	-	-	-	-	15.759	-	-	13.652	-	-	12.687	-	-	-	-	-	12.68
Systems Test and Evaluation		-	-	-	-	-	4.500	-	-	12.404	-	-	9.049	-	-	-	-	-	9.04
Total Recurring Cost				-			50.669			82.363			92.508			-			92.50
Non Recurring Cost																			
Non-recurring Production		-	-	-	-	-	0.500	-	-	-	-	-	-	-	-	-	-	-	-
Total Non Recurring Cost				-			0.500			_						-			-

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-5, Cost Analysis: PB 2014 Army

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item

302

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 10: Ground Support Avionics

AZ3517 - CMWS

Name, DODIC): AZ3517 - CMWS

Date: April 2013

		Al	l Prior Yea	irs		FY 2012			FY 2013		F`	Y 2014 Ba	se	F	Y 2014 OC	)	F`	Y 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Total Flyaway Cost				-			51.169			82.363			92.508			-			92.50
Support Cost					•														
Training		-	-	-	-	-	2.127	-	-	1.000	-	-	3.756	-	-	-	-	-	3.756
Fielding		-	-	-	-	-	0.368	-	-	1.451	-	-	0.772	-	-	-	-	-	0.77
Data		-	-	-	-	-	0.070	-	-	-	-	-	-	-	-	-	-	-	-
Other Modifications		-	-	-	-	-	0.595	-	-	1.079	-	-	0.143	-	-	-	-	-	0.143
† CMWS Gen 3 ECU Hardware		-	-	-	166.000	301	49.922	139.000	301	41.858	183.000	162	29.690	-	-	-	183.000	162	29.690
Other Procurement		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Support Cost				-			53.082			45.388			34.361			-			34.36
Gross Weapon System Cost				-			104.251			127.751			126.869			-			126.869

			FY 2015			FY 2016			FY 2017			FY 2018		To	Complet	е		Total Cost	
	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost
Flyaway Cost			,			'			,		1	'						,	
Recurring Cost																			
† CMWS A-Kit Fixed Wing Procurement		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CMWS A-Kit Fixed Wing Installation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† CMWS A-Kit Rotary Wing Procurement		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CMWS A-Kit Rotary Wing Installation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Recurring Production (Software)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Engineering Changes		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Systems Engineering/ Program Management		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Systems Test and Evaluation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Recurring Cost				-			-			-			-			-			-
Non Recurring Cost											•								
Non-recurring Production		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Non Recurring Cost				_			_						-						_

LI AZ3517 - CMWS
Army

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P-1 Line #29

Exhibit P-5, Cost Analysis: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item Name, DODIC):

Equipment and Facilities / BSA 10: Ground Support Avionics

AZ3517 - CMWS

AZ3517 - CMWS

			FY 2015			FY 2016			FY 2017			FY 2018		T	o Complete	)		Total Cost	t
Cost Elements († indicates the presence of a P-5A)	ID CD		Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)									
Total Flyaway Cost				-			-			-			-			-			-
Support Cost									•		•			•					
Training		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fielding		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Data		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Modifications		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
† CMWS Gen 3 ECU Hardware		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Procurement		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Support Cost				-			-			-			-			-			-
Gross Weapon System Cost				-			-			-			-		Continuing			Continuing	

#### P-5 Remarks:

Secon	dary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	104.251	127.751	126.869	-	126.869	-	-	-	-

LI AZ3517 - CMWS

Army

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P-1 Line #29

Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support

P-1 Line Item Nomenclature: AZ3517 - CMWS

Equipment and Facilities / BSA 10: Ground Support Avionics

AZ3517 - CMWS

Item Nomenclature:

Cost Elements († indicates the presence of a P-21)	0 0	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	<b>Qty</b> (Each)	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
†CMWS A-Kit Fixed Wing Procurement		2014	Various / Various	SS / FFP	CECOM, APG	Sep 2013	Jun 2014	12	446.000			
†CMWS A-Kit Rotary Wing Procurement		2013	Various / Various	SS / CPFF	CECOM, APG	Dec 2012	Jun 2013	84	291.000			
†CMWS Gen 3 ECU Hardware		2012	BAE Systems / Nashua, NH	SS / FFP	CECOM, APG	Mar 2013	Dec 2013	301	166.000	N		
†CMWS Gen 3 ECU Hardware		2013	BAE Systems / Nashua, NH	SS / FFP	AMCOM Contracting Command, RSA	Oct 2013	Jul 2014	301	139.000	N		
†CMWS Gen 3 ECU Hardware		2014	BAE Systems / Nashua, NH	SS / FFP	AMCOM Contracting Command, RSA	Jun 2014	Mar 2015	162	183.000			

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Exhibit P-21, Budget Production Schedule: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 04: Support
Equipment and Facilities / BSA 10: Ground Support Avionics

Date: April 2013

Item Nomenclature:
AZ3517 - CMWS

	•																														
			Cost Elen (Units in E									Fiscal Y	ear 2013			,								Fiscal Yo	ear 2014						
					ACCEP									C	alendar	Year 201	3								Calen	dar Year	2014				
0 C 0	M F R #	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2012	BAL DUE AS OF 1 OCT	0 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	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	N U	J J	A U G	S E P	B A L
CM	WS A	A-Kit Fixe	ed Wing Proc	urement																											
	1	2014	ARMY (XXVI)	12	-	12	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	2	2	2	2	4
СМ	WS A	A-Kit Rot	ary Wing Pro	curemen	t				,	,											'										
	2	2013	ARMY	84	-	84	-	-	Α -	-	-	-	-	-	11	11	11	11	11	11	11	7									-
CM	WS (	Gen 3 EC	CU Hardware																												
	3	2012	ARMY	301	-	301	-	-	-	-	-	Α -	-	-	-	-	-	-	-	-	30	30	30	30	30	30	30	30	30	31	-
	3	2013	ARMY (XXVII)	301	-	301	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	-	-	30	30	30	211
	3	2014	ARMY (XXVIII)	162	-	162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	162
				•		,	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N 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	J U L	A U G	S E P	B A L

LI AZ3517 - CMWS

Army

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P-1 Line #29

Ex	hib	it P-2	21, Bud	get P	roduc	ction	Sche	dule:	PB 2	014 A	rmy													Dat	e: Ap	ril 201	3				
20	31A	. Air	tion / Bocraft Pro and Fac	curer	ment,	Army	/BA	04: S	uppor	t			<b>Line</b> 3517 -			encla	ature:									nencl CMV	<b>ature</b> /S	•			
			Cost Elen (Units in E	nents Each)								Fiscal Ye	ear 2015											Fiscal \	ear 2016	6					
	м				ACCEP PRIOR	BAL								С	alendar	Year 20	15				1				Cale	ndar Yea	r 2016				
0 C 0	F R #	FY	SERVICE <sup>‡</sup>	PROC QTY	TO 1 OCT 2014	DUE AS OF 1 OCT	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 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	N N	J L	A U G	S E P	B A L
CN	IWS A	-Kit Fixe	ed Wing Proc	urement																			-								
	1	2014	ARMY (XXVI)	12	8	4	2	2																							-
			ary Wing Prod		1																										
$\vdash$	2	2013	ARMY CU Hardware	84	84	-																									-
-	3		ARMY	301	301	-																									_
$\vdash$	-	2013	ARMY (XXVII)	301	_	211	30	30	30	30	30	30	30	1																	-
	3	2014	ARMY (XXVIII)	162	-	162	-	-	-	-	-	30	30	30	30	30	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	J L	A U G	S E P	B A L

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Exhibit P-21, Budget Production Schedule: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	Item Nomenclature:
2031A: Aircraft Procurement, Army / BA 04: Support	AZ3517 - CMWS	AZ3517 - CMWS
Equipment and Facilities / BSA 10: Ground Support Avionics		

		Product	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
						Init	ial			Reo	der	
MFR					ALT Prior			Total After	ALT Prior			Total After
#	MFR Name - Location	MSR	1-8-5	MAX	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1	to Oct 1	ALT After Oct 1	Mfg PLT	Oct 1
1	Various - Various	11.00	300.00	800.00	3	3	12	15	2	2	9	11
2	Various - Various	11.00	300.00	800.00	3	3	12	15	2	2	9	11
3	BAE Systems - Nashua, NH	24.00		1,000.00	6	6	6	12	6	6	6	12

<sup>&</sup>quot;A" in the Delivery Schedule indicated the Contract Award Date.

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

### Service/Agency Suffixes:

(XXVI) BASE

(XXVII) BASE

(XXVIII) BASE

 LI AZ3517 - CMWS
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 Army
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 P-1 Line #29
 P-1 Line #29

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013

### Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA | AZ3000 - Avionics Support Equipment

30: Other Support

**Program Elements for Code B Items:** 

**Other Related Program Elements:** 

MDAP/MAIS Code(s):

ID Code (A=Service Ready, B=Not Service Ready):

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	568	415	705	-	705	702	703	332	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	495.639	4.840	4.886	6.809	-	6.809	6.910	7.044	7.177	7.199	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	495.639	4.840	4.886	6.809	-	6.809	6.910	7.044	7.177	7.199	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	495.639	4.840	4.886	6.809	-	6.809	6.910	7.044	7.177	7.199	Continuing	Continuing
	(The following	g Resource Sum	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway   Init Cost (Units in Thousands)	_	_	_	_	_	_	_	_	_	_	_	_

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	9.658	-	9.658	-	-	-	-	Continuing	Continuing

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### **Description:**

Consists of a family of avionics support equipment. Current program consists of the Aviators' Night Vision Imaging System (ANVIS).

Sec	condary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	568	415	705	-	70	5 702	703	332	-
	Total Obligation Authority	4.840	4.886	6.809	-	6.80	9 6.910	7.044	7.177	7.199

	5															-				
Item Sche	edule		F	Prior Yea	rs		FY 2012			FY 2013		FY	2014 Ba	se	FY	2014 O	co	FY	2014 Tot	tal
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)
K35601 - ANVIS	P5, P5A, P21	Α	-	-	495.639	-	568	4.840	-	415	4.886	9.658	705	6.809	-	-	-	9.658	705	6.809
Total Gross/Weapon					495.639			4.840			4.886			6.809			-			6.809

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P40.

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

Justification:

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

	UNCLA	SSIFIED		
Exhibit P-40, Budget Item Justification Sho	eet: PB 2014 Army		Date: April 2013	
Appropriation / Budget Activity / Budget S 2031A: Aircraft Procurement, Army / BA 04: S 30: Other Support		P-1 Line Item Nomencl AZ3000 - Avionics Supp		
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Ite	ems:	Other Related Program Elements:	
MDAP/MAIS Code(s):				
			to Active Units. The increased capability of the AN/AVS-6(V)3 yields e AN/AVS-6(V)3 enhances the survivability, lethality, and tactical mo	
All COMPO 1 Active				
In accordance with section 1815 of the FY 2008 Nation defense missions, domestic emergency responses and		item is necessary for use by the	e active and reserve components of the Armed Forces for homeland	

LI AZ3000 - Avionics Support Equipment Army

Exhibit P-5, Cost Analysis: PB 2014 Army

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

Appropriation / Budget Activity / Budget Sub Activity:

AZ3000 - Avionics Support Equipment

Name, DODIC): K35601 - ANVIS

Date: April 2013

Resource Summary	<b>Prior Years</b>	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO##	FY 2014 Total
Procurement Quantity (Units in Each)	-	568	415	705	-	705
Gross/Weapon System Cost (\$ in Millions)	495.639	4.840	4.886	6.809	-	6.809
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	495.639	4.840	4.886	6.809	-	6.809
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	495.639	4.840	4.886	6.809	-	6.809

(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 (Units in Thousands) \_ \_ -9.658 9.658

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

		Al	l Prior Yea	rs		FY 2012			FY 2013		F	/ 2014 Ba	se	F`	Y 2014 OC	0	F`	Y 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )
Flyaway Cost																			
Recurring Cost																			
† ANVIS		6.215	10,172	63.214	6.655	568	3.780	9.330	415	3.872	7.803	705	5.501	-	-	-	7.803	705	5.501
Engineering Support		-	-	3.680	-	-	0.281	-	-	0.179	-	-	0.324	-	-	-	-	-	0.324
Project Management Admin		-	-	5.063	-	-	0.440	-	-	0.417	-	-	0.476	-	-	-	-	-	0.476
Engineering Change Orders		-	-	0.385	-	-	-	-	-	0.050	-	-	0.052	-	-	-	-	-	0.052
Fielding		-	-	0.965	-	-	0.339	-	-	0.368	-	-	0.456	-	-	-	-	-	0.456
Total Recurring Cost				73.307			4.840			4.886			6.809			-			6.809
Total Flyaway Cost				73.307			4.840			4.886			6.809			-			6.809
Gross Weapon System Cost				495.639			4.840			4.886			6.809			-			6.809

#### P-5 Remarks:

Army

Seco	ondary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Army	Quantity	568	415	705	-	705
	Total Obligation Authority	4.840	4.886	6.809	-	6.809

LI AZ3000 - Avionics Support Equipment

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<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 04: Support
Equipment and Facilities / BSA 30: Other Support

Date: April 2013

Item Nomenclature:
K35601 - ANVIS

	0			Mathad/Type or	Location		Date of First	_		Specs	Date Revsn	RFP Issue
Cost Elements († indicates the presence of a P-21)	o	FY	Contractor and Location	Method/Type, or Funding Vehicle	of PCO	Award Date	Delivery	<b>Qty</b> (Each)	Unit Cost	Now?	Avail	Date
†ANVIS		2012	Exelis / Roanoke, VA	C / IDIQ	ACC APG	Sep 2012	Dec 2012	286	6.610	N		
†ANVIS		2012	L-3 / Tempe, AZ	C / IDIQ	ACC APG	Sep 2012	Dec 2012	282	6.700	N		
†ANVIS		2013	TBS / TBD	C / IDIQ	ACC APG	Dec 2012	Jul 2013	415	9.330	N		
†ANVIS		2014	TBS / TBD	C / IDIQ	ACC APG	Dec 2013	Jul 2014	705	7.803	N		

#### 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, Budget Production Schedule: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 04: Support
Equipment and Facilities / BSA 30: Other Support

Date: April 2013

Item Nomenclature:
K35601 - ANVIS

			Cost Elen (Units in E									Fiscal Y	ear 2012											Fiscal Y	ear 2013						
					ACCEP			_	-		-			C	alendar	Year 201	2					_			Calen	dar Year	2013				
0 C 0	M F R #	FY	SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	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	J 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	J U L	A U G	S E P	B A L
AN	VIS																														
	1	2012	ARMY (XXIX)	286	-	286	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	25	25	50	50	50	50	36				-
	2	2012	ARMY (XXX)	282	-	282	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	25	25	50	50	50	50	32				-
	1	2012	TOTAL	286	-	286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	25	50	50	50	50	36				-
	3	2013	ARMY (XXXI)	415	-	415	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A -	-	-	-	-	-	-	30	35	35	31
	3	2014	ARMY (XXXII)	705	-	705	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
			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

LI AZ3000 - Avionics Support Equipment Army

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Exhibit P-21, Budget Production Schedule: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 04: Support AZ3000 - Avionics Support Equipment K35601 - ANVIS Equipment and Facilities / BSA 30: Other Support Cost Elements Fiscal Year 2014 (Units in Each) Fiscal Year 2015 ACCEP Calendar Year 2014 Calendar Year 2015 М PRIOR BAL 0 C 0 DUE В F A P R 0 TO 1 S PROC OCT AS OF С E Ε A R Ü U E C 0 V Е Р U U U E 0 V A N A Y U A N Е A R A Y A L FΥ SERVICE<sup>‡</sup> QTY R N # 2013 1 OCT G ANVIS 2012 ARMY 286 286 (XXIX) 2 2012 ARMY 282 282 (XXX) TOTAL 286 2012 286 3 ARMY 100 315 35 35 35 35 35 35 35 35 35 2013 415 (XXXI) 3 ARMY 705 705 58 58 58 59 59 59 59 59 59 59 59 59 2014 Α -(XXXII) В 0 D E M A S 0 N O D F E S U A U A U E Ū Ū Ū Ε Α Α Α Α R R

LI AZ3000 - Avionics Support Equipment Army

Exhibit P-21, Budget Production Schedule: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 04: Support
Equipment and Facilities / BSA 30: Other Support

Date: April 2013

Item Nomenclature:
K35601 - ANVIS

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
						Init	ial			Reo	der	
MFR #	MFR Name - Location	MSR	1-8-5	MAX	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	Exelis - Roanoke, VA	25.00	125.00	250.00	4	11	3	14	4	2	7	9
2	L-3 - Tempe, AZ	25.00	125.00	250.00	4	2	7	9	4	2	7	9
3	TBS - TBD	25.00		250.00	4	2	7	9	4	2	7	9

<sup>&</sup>quot;A" in the Delivery Schedule indicated the Contract Award Date.

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 99,999, all quantities are shown as each. If the maximum quantity is greater than 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

### Service/Agency Suffixes:

(XXIX) BASE

(XXX) BASE

(XXXI) BASE

(XXXII) BASE

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013

### Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA AZ3100 - Common Ground Equipment

30: Other Support

**Program Elements for Code B Items:** 

Other Related Program Elements: 0603801A

P-1 Line #31

MDAP/MAIS Code(s):

ID Code (A=Service Ready, B=Not Service Ready) :

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	1,434.040	114.517	82.511	65.397	-	65.397	56.445	57.984	51.088	59.779	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	1,434.040	114.517	82.511	65.397	-	65.397	56.445	57.984	51.088	59.779	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,434.040	114.517	82.511	65.397	-	65.397	56.445	57.984	51.088	59.779	Continuing	Continuing
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	d elsewhere.)		1	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	-	-	-	-	-	-	-	-	-	-	-	-

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### **Description:**

(Units in Thousands)

FY 2014 Base procurement dollars in the amount of \$65.397 million supports and provides various types of ground support equipment.

Secon	dary Dist	ribution		FY 2012		FY 2013	3	FY 201 Base		FY 201 OCO		FY 20 <sup>-</sup> Tota		FY 20	15	FY 20	)16	FY 2	017	FY 2	2018
Army	Quantity				-		-		-		-		-		-		-		-		-
	Total Oblig	gation Authority		114	.517	8	2.511		65.397		-		65.397		56.445		57.984		51.088		59.779
It	tem Sched	lule		Р	rior Yea	rs		FY 2012			FY 2013		F	/ 2014 Ba	ise	FY	2014 O	co	FY	/ 2014 To	otal
Item Nomen	nclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
AZ3520 - AVIATI GROUND SUPPI EQUIPMENT		P5		-	-	871.961	-	-	114.517	-	-	82.511	-	-	65.397	-	-	-	-	-	65.397
Total Gross/Wea System Cost	apon					1,434.040			114.517			82.511			65.397			-			65.397

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Nomenclature:	
2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA	AZ3100 - Common Ground Equipment	
30: Other Support		

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements: 0603801A

### MDAP/MAIS Code(s):

Item Sche	dule			FY 2015			FY 2016			FY 2017			FY 2018		To	Comple	te		Total	
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost (\$ M)	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost (\$ M)
AZ3520 - AVIATION GROUND SUPPORT EQUIPMENT	P5		-	-	-	-	-	-	-	-	-	-	-	-		Continuing		,	Continuing	
Total Gross/Weapon System Cost					56.445			57.984			51.088			59.779		Continuing			Continuing	

<sup>\*</sup>Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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

#### Justification:

All COMPO 1 Active.

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 2014 Army

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item Name, DODIC):

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

Appropriation / Budget Activity / Budget Sub Activity:

AZ3100 - Common Ground Equipment

AZ3520 - AVIATION GROUND SUPPORT EQUIPMENT

Date: April 2013

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	871.961	114.517	82.511	65.397	-	65.397	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	871.961	114.517	82.511	65.397	-	65.397	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	871.961	114.517	82.511	65.397	-	65.397	-	-	-	-	Continuing	Continuing
	(The following	Resource Sumi	mary rows are fo	or informational p	urposes only. Th	ne corresponding	budget request	ts are documente	ed elsewhere.)	,	•	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

	$\overline{}$					=>/.00/0			=>/.00/10								_		
		Al	l Prior Yea	irs		FY 2012			FY 2013		F	/ 2014 Bas	se	F`	Y 2014 OC	)	F	Y 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost															,				
Recurring Cost																			
Aviation Ground Power Unit (AGPU)		-	-	-	-	-	62.936	-	-	13.787	-	-	3.998	-	-	-	-	-	3.99
Avn Light Utility Mobile Maint (ALUMMC)		-	-	84.661	-	-	-	-	-	3.159	-	-	9.638	-	-	-	-	-	9.63
Avn Intermediate Maint (AVIM) Shop Sets		-	-	-	-	-	20.413	-	-	12.201	-	-	8.273	-	-	-	-	-	8.27
Avn Unit Maintenance (AVUM)/(A92)		-	-	-	-	-	-	-	-	16.297	-	-	-	-	-	-	-	-	-
Modernized Maintenance Platforms		-	-	-	-	-	-	-	-	2.633	-	-	6.168	-	-	-	-	-	6.16
Battle Damage Assess Repair (BDAR) II		-	-	-	-	-	5.475	-	-	2.345	-	-	0.592	-	-	-	-	-	0.59
Common Aviation Tool System (CATS)		-	-	40.815	-	-	-	-	-	21.188	-	-	14.851	-	-	-	-	-	14.85
Flexible Engine Diagnostics Sys (FEDS)		-	-	1.206	-	-	12.389	-	-	5.622	-	-	17.292	-	-	-	-	-	17.29

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Exhibit P-5, Cost Analysis: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

AZ3100 - Common Ground Equipment

Date: April 2013

Item Nomenclature (Item Number - Item

Name, DODIC):

AZ3520 - AVIATION GROUND

SUPPORT EQUIPMENT

		Al	l Prior Yea	ırs		FY 2012			FY 2013		F`	Y 2014 Bas	se	F`	Y 2014 OC	0	F`	Y 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Digital Aircraft Weighing Scale (DAWS)		-	-	-	-	-	-	-	-	-	-	-	0.700	-	-	-	-	-	0.700
Standard Aircraft Towing System (SATS)		-	-	28.216	-	-	2.979	-	-	-	-	-	-	-	-	-	-	-	-
Shop Equipment Contact Maint (SECM)		-	-	-	-	-	3.155	-	-	-	-	-	-	-	-	-	-	-	-
Swaging Tool Kits		-	-	12.706	-	-	-	-	-	1.921	-	-	-	-	-	-	-	-	-
Unit Maint Aerial Recovery Kit (UMARK)		-	-	6.675	-	-	3.883	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Support	:	-	-	252.866	-	-	3.287	-	-	3.358	-	-	3.885	-	-	-	-	-	3.885
Total Recurring Cost				427.145			114.517			82.511			65.397			-			65.397
Total Flyaway Cost				427.145			114.517			82.511			65.397			-			65.397
Gross Weapon System Cost				871.961			114.517			82.511			65.397			-			65.397

			FY 2015			FY 2016			FY 2017			FY 2018		To	Complet	e		Total Cost	
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M )
Flyaway Cost																			
Recurring Cost																			
Aviation Ground Power Unit (AGPU)		-	-	-	-			-	-	-	-	-	-		-	-	-	-	-
Avn Light Utility Mobile Maint (ALUMMC)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avn Intermediate Maint (AVIM) Shop Sets		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avn Unit Maintenance (AVUM)/(A92)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Modernized Maintenance Platforms		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Battle Damage Assess Repair (BDAR) II		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LI AZ3100 - Common Ground Equipment Army

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Exhibit P-5, Cost Analysis: PB 2014 Army

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item Name, DODIC):

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

Appropriation / Budget Activity / Budget Sub Activity:

AZ3100 - Common Ground Equipment

AZ3520 - AVIATION GROUND SUPPORT EQUIPMENT

Date: April 2013

			FY 2015			FY 2016			FY 2017			FY 2018		T	o Complete	е		Total Cost	
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )
Common Aviation Tool System (CATS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flexible Engine Diagnostics Sys (FEDS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Digital Aircraft Weighing Scale (DAWS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Aircraft Towing System (SATS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shop Equipment Contact Maint (SECM)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Swaging Tool Kits		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unit Maint Aerial Recovery Kit (UMARK)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Recurring Cost				-			-			-			-			-			-
Total Flyaway Cost				-			-			-			-			-			-
Gross Weapon System Cost				-			-			-			-		Continuing			Continuing	

#### P-5 Remarks:

Secon	dary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	114.517	82.511	65.397	-	65.397	-	-	-	-

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Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013

### Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA AZ3110 - Aircrew Integrated Systems

30: Other Support

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements: 0603827A, 0604601A

MDAP/MAIS Code(s):

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	474.106	62.746	77.381	45.841	-	45.841	16.347	14.080	0.008	2.920	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	474.106	62.746	77.381	45.841	-	45.841	16.347	14.080	0.008	2.920	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	474.106	62.746	77.381	45.841	-	45.841	16.347	14.080	0.008	2.920	Continuing	Continuing
	(The following	g Resource Sum	mary rows are fo	or informational p	ourposes only. Th	he corresponding	g budget request:	s are documente	d elsewhere.)	•	*	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	-	-	-	-	-	-	-	-	-	-	-	-

 $<sup>^{\#}</sup>$  FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### **Description:**

(Units in Thousands)

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 eve and chemical-biological protection; tailored body armor; overwater survival gear; and survival, escape, and evasion tools; the Electronic Data Manager (EDM) 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 will be delivered in two sub-increments and combines cold and hot weather protection functionality while reducing protective clothing and body armor layers without compromising protection; reduces the number of batteries, displays and user interfaces to the aircraft; combines separate communications functionalities, displays, and computer processors; enhances situational awareness and safety through an improved helmet mounted display with three dimensional symbology for flight in Degraded Visual Environments (DVE); and improves laser eye protection. Select components of the Air Warrior program will be modified through ECP and integrated into the Air Soldier baseline. The Personnel Recovery Support System (PRSS) program includes the modification, integration, procurement, and fielding of platform 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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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

UNCLASSIFIED Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA AZ3110 - Aircrew Integrated Systems 30: Other Support Other Related Program Elements: 0603827A, 0604601A **Program Elements for Code B Items:** ID Code (A=Service Ready, B=Not Service Ready) : MDAP/MAIS Code(s): FY 2014 **FY 2014** FY 2014 **Secondary Distribution** FY 2012 **FY 2013** oco Total FY 2015 FY 2016 **FY 2017** FY 2018 Base Armv Quantity **Total Obligation Authority** 62.746 77.381 45.841 45.841 16 347 14.080 0.008 2 920 FY 2012 FY 2013 FY 2014 Base **FY 2014 OCO** FY 2014 Total Item Schedule **Prior Years** ID **Unit Cost** Total Cost **Unit Cost** Total Cost **Unit Cost** Total Cost **Unit Cost** Qty Total Cost **Unit Cost** Qty Total Cost **Unit Cost** Qty Total Cost CD **Exhibits** (\$K) (Each) Item Nomenclature\* (Each) (\$ M) (\$K) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) P5. P5A. P21 474.106 62.746 45.841 AZ3110 - Aircrew Integrated 77.381 45.841 Systems Total Gross/Weapon 62.746 77.381 474.106 45.841 45.841 System Cost FY 2015 FY 2016 FY 2017 **FY 2018** Item Schedule To Complete Total ID **Unit Cost** Qty Total Cost **Unit Cost** Qty Total Cost **Unit Cost** Qty Total Cost **Unit Cost** Qty Total Cost **Unit Cost** Qty Total Cost **Unit Cost** Qty Total Cost CD Item Nomenclature\* **Exhibits** (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (Each) (\$ M) AZ3110 - Aircrew Integrated P5, P5A, P21 Continuing Continuing Systems Total Gross/Weapon 16.347 14.080 0.008 2.920 Continuing Continuina System Cost \*Item Nomenclature represents Item Number. DODIC. and Item Name for the P40A and P5: Name for the P48 and P23: Modification Number and Modification Title for the P3A: Item Number and Item Name for the P40. Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding. Justification: FY2014 Base procurement dollars in the amount of \$45.841 million supports production and fielding of Air SS sub-increment 1a Soldier kits consisting of a Common Helmet Mounted Display System with head tracker and DVE symbology, a Personal Electronics and Computer Display System, an Integrated Soldier Power and Data System, a Layered Clothing Ensemble with light weight body armor and 72 Hour survival equipment, and a Light Weight Environmental Control System. These funds procure Air Soldier sub-increment 1a aircraft kits consisting of the platform-mounted components necessary for aircraft interface with the Air Soldier; the integration of Air Warrior ECPs and installation of Air Warrior and Air Soldier aircraft kits. These funds also will procure Personnel Recovery Support System (PRSS) platform interoperability hardware components and software improvements. Funding procures equipment and material to support a balanced investment strategy for the Army's approved force structure and Army Force Generation (ARFORGEN) requirements.

LI AZ3110 - Aircrew Integrated Systems Army

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AZ3110 - Aircrew Integrated Systems

Exhibit P-5, Cost Analysis: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

Name, DODIC):

AZ3110 - Aircrew Integrated Systems

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	474.106	62.746	77.381	45.841	-	45.841	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	474.106	62.746	77.381	45.841	-	45.841	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	474.106	62.746	77.381	45.841	-	45.841	-	-	-	-	Continuing	Continuing
	(The following	Resource Sum	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	ed elsewhere.)	í	•	
1.10.10												

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

Army

		All	Prior Yea	rs		FY 2012			FY 2013		F'	Y 2014 Bas	se	F'	/ 2014 OC	)	F	/ 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost			,		'						'				,				
Recurring Cost																			
† Air Warrior Microclimate Cooling Units		7.666	8,853	67.867	3.000	100	0.300	3.090	100	0.309	-	-	-	-	-	-	-	-	
† Electronic Data Mgr (EDM)		8.689	2,830	24.589	8.112	1,500	12.168	-	-	-	-	-	-	-	-	-	-	-	-
† Encrypt Acft Wrless Intercom Sys (EAWIS)		9.196	342	3.145	18.565	832	15.446	14.882	1,212	18.037	-	-	-	-	-	-	-	-	-
† Air Warrior Airframe Kits		8.100	904	7.322	4.300	1,181	5.078	4.072	1,828	7.443	-	-	-	-	-	-	-	-	-
Airframe Kit Installs		-	-	-	-	-	8.838	-	-	11.266	-	-	-	-	-	-	-	-	
† Survival Kit, Ready Access, Modular		0.201	2,000	0.402	0.142	9,450	1.339	0.079	7,203	0.566	-	-	-	-	-	-	-	-	-
† Communication Enhance/Protect Sys (CEPS)		-	-	-	0.350	4,000	1.400	0.350	4,000	1.400	-	-	-	-	-	-	-	-	-
† Day/Night Helmet Mounted Displays		-	-	-	-	-	-	24.217	908	21.989	-	-	-	-	-	-	-	-	-
† PRSS Platform Modifications		-	-	-	400.000	6	2.400	854.000	2	1.708	-	-	2.481	-	-	-	-	-	2.4

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FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-5, Cost Analysis: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: Item Nomenclature (Item Number - Item P-1 Line Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 04: Support Name, DODIC): AZ3110 - Aircrew Integrated Systems Equipment and Facilities / BSA 30: Other Support AZ3110 - Aircrew Integrated Systems **All Prior Years** FY 2014 Total FY 2012 FY 2013 FY 2014 Base **FY 2014 OCO** Total Total Cost Elements Total Total Total Total ID **Unit Cost Unit Cost** Quantity Cost Unit Cost Quantity Cost Quantity Cost **Unit Cost** Quantity Cost Unit Cost Quantity Cost Unit Cost Quantity Cost († indicates the CD presence of a P-5A) (\$K) (Each) (\$ M) (\$K) (Each) (\$ M) (Each) (\$ M) (Each) (\$ M) (\$K) (Each) (\$ M) (Each) (\$ M) † AW ECP's 7.020 1,674 11.752 7.020 1,674 11.752 Supporting Air SS Reqmts † Air SS Sub 8.273 1.674 8.273 1.674 13.849 13.849 Increment 1a Soldier Kits 301 301 † Air SS Sub 0.741 21.638 6.513 21.638 6.513 Increment 1a Airframe Kits Airframe Kit Install 3.925 1.500 1.500 13.387 0.206 0.210 0.279 0.279 Manual --\_ --0.304 1.112 0.300 0.300 New Equipment 1.142 Training 4.390 0.921 0.948 1.748 1.748 Initial Spares ---7.849 0.223 0.227 0.223 0.223 Support Equipment -\_ ---\_ -Systems Test and 12.239 1.221 1.245 Evaluation 1.224 1.248 Nonrecurring 24.942 Engineering (NRE) PRSS Interoperability 55.102 2.868 1.451 1.400 1.400 Engineering **Engineering Changes** 5.784 0.517 0.535 4.480 0.734 0.789 0.300 0.300 Systems Integration Engineering Program 5.269 5.126 5.223 5.438 5.438 Management & Matrix Support Total Package 0.118 2.740 0.322 0.875 0.900 0.058 0.058 Fielding Contract Logistics 0.196 2,742 0.537 0.750 0.745 Support Total Recurring Cost 242.596 62.746 77.381 45.841 45.841 Total Flyaway Cost 242.596 62.746 77.381 45.841 45.841 **Gross Weapon System** 474.106 62.746 77.381 45.841 45.841 FY 2015 FY 2016 FY 2017 FY 2018 **Total Cost** To Complete **Cost Elements** Total Total Total Total Total Total ID († indicates the **Unit Cost** Quantity Cost Unit Cost Quantity Cost **Unit Cost** Quantity Cost **Unit Cost** Quantity **Unit Cost** Quantity Cost Unit Cost | Quantity Cost Cost CD presence of a P-5A) (\$K) (\$ M) (Each) (\$ M) (\$ K) (\$ M) (\$ M) (\$ K) (Each) (\$ M) (\$K) (Each) (\$ M)

LI AZ3110 - Aircrew Integrated Systems Army

Flyaway Cost

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Page 4 of 11

Exhibit P-5, Cost Analysis: PB 2014 Army

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item Name, DODIC):

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

AZ3110 - Aircrew Integrated Systems

AZ3110 - Aircrew Integrated Systems

Date: April 2013

					1			1			T								
			FY 2015			FY 2016			FY 2017			FY 2018		To	o Complete	9		Total Cost	:
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Recurring Cost								,											
† Air Warrior Microclimate Cooling Units		-	-	-	-	-	=	-	-	-	-	-	-	-	-	-	-	-	
† Electronic Data Mgr (EDM)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† Encrypt Acft Wrless Intercom Sys (EAWIS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† Air Warrior Airframe Kits		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	
Airframe Kit Installs		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† Survival Kit, Ready Access, Modular		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† Communication Enhance/Protect Sys (CEPS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† Day/Night Helmet Mounted Displays		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† PRSS Platform Modifications		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† AW ECP's Supporting Air SS Reqmts		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† Air SS Sub Increment 1a Soldier Kits		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
† Air SS Sub Increment 1a Airframe Kits		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Airframe Kit Install		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manual		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Equipment Training		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Initial Spares		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Support Equipment		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Systems Test and Evaluation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nonrecurring Engineering (NRE)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PRSS Interoperability Engineering		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Engineering Changes		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

LI AZ3110 - Aircrew Integrated Systems Army

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Exhibit P-5, Cost Analysis: PB 2014 Army

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

AZ3110 - Aircrew Integrated Systems

Name, DODIC): AZ3110 - Aircrew Integrated Systems

Date: April 2013

			FY 2015			FY 2016			FY 2017			FY 2018		T	o Complete	•		Total Cost	i
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Systems Integration Engineering		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Program Management & Matrix Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Package Fielding		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-
Contract Logistics Support		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Recurring Cost				-			-			-			-			-			-
Total Flyaway Cost				-			-			-			-			-			-
Gross Weapon System Cost				-			-			-			-		Continuing			Continuing	

#### P-5 Remarks:

Secon	dary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	62.746	77.381	45.841	-	45.841	-	-	-	-

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Exhibit P-5A, Budget Procurement History and Planning: PB 2014 Army

Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support

AZ3110 - Aircrew Integrated Systems

AZ3110 - Aircrew Integrated Systems

Cost Elements († indicates the presence of a P-21)	0 C 0	FY	Contractor and Location	Method/Type, or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost	Specs Avail Now?	Date Revsn	RFP Issue Date
†Air Warrior Microclimate Cooling Units		2012	Carleton Technologies, Inc. / Orchard Park, NY	C / FFP	Redstone Arsenal, AL	Mar 2012	Jun 2012	100	3.000	N		
†Air Warrior Microclimate Cooling Units		2013	Carleton Technologies, Inc. / Orchard Park, NY	C / FFP	Redstone Arsenal, AL	Mar 2013	Jun 2013	100	3.090	N		
†Electronic Data Mgr (EDM)		2012	Raytheon / Indianapolis, IN	C / FFP	Redstone Arsenal. AL	Dec 2011	Apr 2012	1,500	8.112	N		
†Encrypt Acft Wrless Intercom Sys (EAWIS)		2012	Telephonics / Farmingdale, NY	SS / FFP	Redstone Arsenal, AL	Jun 2012	Sep 2012	832	18.565	N		Mar 2012
†Encrypt Acft Wrless Intercom Sys (EAWIS)		2013	Telephonics / Farmingdale, NY	SS / FFP	Redstone Arsenal,AL	Mar 2013	Jun 2013	1,212	14.882	N		
†Air Warrior Airframe Kits		2012	Westwind Corporation / Huntsville, AL	C / FFP	Redstone Arsenal, AL	Dec 2011	Mar 2012	1,181	4.300	N		
†Air Warrior Airframe Kits		2013	Westwind Corporation / Huntsville, AL	C / FFP	Redstone Arsenal, AL	Dec 2012	Mar 2013	1,828	4.072	N		
Survival Kit, Ready Access, Modular		2012	ADS / Virginia Beach, VA	C / FFP	Redstone Arsenal, AL	Aug 2012	Dec 2012	9,450	0.142	N		
Survival Kit, Ready Access, Modular		2013	TBD / TBD	C / FFP	TBD	Mar 2013	Jul 2013	7,203	0.079	N		
Communication Enhance/Protect Sys (CEPS)		2012	Communications & Ear Protectio / Enterprise, AL	C / FFP	Redstone Arsenal, AL	Jun 2012	Jul 2012	4,000	0.350	N		Jul 2010
Communication Enhance/Protect Sys (CEPS)		2013	Communications & Ear Protectio / Enterprise, AL	C / FFP	Redstone Arsenal, AL	Mar 2013	Apr 2013	4,000	0.350	N		
Day/Night Helmet Mounted Displays		2013	EFW, Inc / Fort Worth, TX	C / FFP	Redstone Arsenal, AL	Apr 2013	Oct 2013	908	24.217	N		
PRSS Platform Modifications		2012	Sandia National Labs / Albuquerque, NM	C / FFP	Albuquerque, NM	Aug 2012	Aug 2013	6	400.000	N		
PRSS Platform Modifications		2013	Sandia National Labs / Albuquerque, NM	C / FFP	Albuquerque, NM	Mar 2013	Mar 2014	2	854.000	N		
†AW ECP's Supporting Air SS Reqmts		2014	Various / TBD	C / FFP	Redstone Arsenal, AL	Jan 2014	Jul 2014	1,674	7.020	N		
†Air SS Sub Increment 1a Soldier Kits		2014	Various / TBD	C / FFP	Redstone Arsenal, AL	Jun 2014	Dec 2014	1,674	8.273	N		
†Air SS Sub Increment 1a Airframe Kits		2014	Various / TBD	C / FFP	Redstone Arsenal, AL	Jun 2014	Dec 2014	301	21.638	N		

Exhibit P-21, Budget Production Schedule: PB 2014 Army Date: April 2013 Appropriation / Budget Activity / Budget Sub Activity: P-1 Line Item Nomenclature: Item Nomenclature: 2031A: Aircraft Procurement, Army / BA 04: Support AZ3110 - Aircrew Integrated Systems AZ3110 - Aircrew Integrated Systems Equipment and Facilities / BSA 30: Other Support Cost Elements Fiscal Year 2012 Fiscal Year 2013 (Units in Each) Calendar Year 2013 ACCEP Calendar Year 2012 PRIOR М BAL 0 В F TO 1 DUE s 0 С PROC С Р Ü U U U OCT AS OF 0 Е Ε Α Α U Ε С О Ε Ε Α Р U Е Α R Α Α Α 0 FY SERVICE<sup>‡</sup> R R R QTY 2011 1 OCT С N В G Ρ В R Ν Air Warrior Microclimate Cooling Units 2012 ARMY 100 \_ 100 Α --50 50 50 50 1 100 Α -2013 ARMY 100 Electronic Data Mgr (EDM) 2 2012 ARMY 1,500 1,500 Α -84 84 84 84 84 84 166 166 166 166 166 166 Encrypt Acft Wrless Intercom Sys (EAWIS) 3 2012 ARMY 832 832 65 68 68 68 68 68 68 68 68 73 73 77 --Α ----3 2013 ARMY 1,212 1,212 Α -101 101 101 101 808 Air Warrior Airframe Kits 1,181 4 ARMY 1,181 94 94 94 94 94 94 94 94 94 94 104 137 2012 \_ Α -4 ARMY 1,828 1,828 Α -152 152 152 152 152 152 152 764 2013 AW ECP's Supporting Air SS Regmts 5 2014 ARMY 1,674 1,674 1,674 Air SS Sub Increment 1a Soldier Kits 6 2014 ARMY 1,674 1,674 -1,674 Air SS Sub Increment 1a Airframe Kits 2014 ARMY 301 301 0 N D J F М М J J s 0 Ν D F М М J J Α s В Α Α J Α С О Ε Α Е Α Ρ A Y U U U Ε С 0 Ε Α Е Α Ρ Α U U U Ε Α

LI AZ3110 - Aircrew Integrated Systems
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quipm	nent and Fa													ntegra			าร							Aircre		egrate	ed Sv	stems	s
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M									ı	iscal Y	ear 2014										F	iscal Ye	ar 2015						
F			ACCEP					_			-	(	Calenda	Year 201	14					_			Calen	dar Year	2015				
R     #   F	FY SERVICE <sup>‡</sup>	PROC QTY	PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	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	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
	Microclimate Cool		20.0							.,		•				-						.,		•				•	
1 20	2012 ARMY	100	100	-																									
1 20	2013 ARMY	100	100	-	l																								
lectronic D	Data Mgr (EDM)																												
2 20	2012 ARMY	1,500	1,500	-																									
ncrypt Acf	ft Wrless Intercom	Sys (EAW	'IS)																										
3 20	2012 ARMY	832	832	-																									
	2013 ARMY	1,212	404	808	101	101	101	101	101	101	101	101																	
	Airframe Kits																												
	2012 ARMY	1,181	1,181	-	<u> </u>		1																						<u> </u>
	2013 ARMY	1,828	1,064	764	152	152	152	154	154																				
	Supporting Air SS			4.07.4										140	110	110	440	4.40	440	440	4.40	440	4.40	4.40	404				_
	2014 ARMY Increment 1a Solo	1,674	-	1,674	-	-	-	A -	-	-	-	-	-	140	140	140	140	140	140	140	140	140	140	140	134				
	2014 ARMY	1,674		1,674	-	_	-	-	_	-	-		Α -	-	_	-	-	-	139	139	139	140	140	140	140	140	140	140	2
	Increment 1a Airfr			1,074									Α-				_		100	100	100	140	140	140	140	140	140	140	
	2014 ARMY	301	_	301	- 1	_	_	_	_	_	_		Α -	Τ -	_	_	-	_	25	25	25	25	25	25	25	25	25	25	
1. 1 -	1				0	N	D	J	F	М	Α	М	J	J	Α	s	0	N	D	J	F	M	A	М	J	J	Α	s	В
					C T	O V	E C	A N	E B	A R	P R	A Y	U N	L	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	A L
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LI AZ3110 - Aircrew Integrated Systems Army

	priat	ion / B	udget	Activ	vity /	Budg	et Sı	ıb Ad			- 1	l Line											Item		nencl	ature		0	. 1	
		raft Pro and Fa							π		AZ	3110	- Airc	rew II	ntegra	itea S	ysten	ns					AZ3	110 -	Aircr	ew Int	egrat	ea Sy	/stem	S
-quipii	HEHI !	Cost Elen		7 00/	<del>-</del> 30.	Other	Sup	ροιτ																						$\overline{}$
		(Units in E	Each)								Fiscal \	Year 2010	3										Fiscal Y	ear 2017						
M				ACCEP PRIOR	BAL	-		1				1		Calenda	Year 20	16		1	Ť	1				Caler	ndar Yea	r 2017		1	,	┷
M F R P #	FY	SERVICE <sup>‡</sup>	PROC QTY	TO 1 OCT	DUE AS OF 1 OCT	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
		limate Coolii	ng Units																											
1 2	2012	ARMY	100	100	-																								_	-
1 2	2013	ARMY	100	100	-																									-
Electronic	: Data Mo	gr (EDM)			,																									
2 2	2012	ARMY	1,500	1,500	-																									-
	_	s Intercom																												
	2012		832		-																									-
	2013		1,212	1,212	-																								-	-
Air Warrior																													_	
		ARMY	1,181	1,181	-																									-
	2013		1,828	1,828	-																-									-
	2014 /	ting Air SS I		1,674	-																								_	T -
		ent 1a Sold	1,674	1,674	-			-					-		-		-			-	-				-					
	2014		1,674	1,397	277	140	137																						_	1 -
		ent 1a Airfra		1,007	211	140	107																						_	
	2014		301	250	51	25	26																						_	T -
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LI AZ3110 - Aircrew Integrated Systems Army

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Exhibit P-21, Budget Production Schedule: PB 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:

2031A: Aircraft Procurement, Army / BA 04: Support

Equipment and Facilities / BSA 30: Other Support

Date: April 2013

Item Nomenclature:

AZ3110 - Aircrew Integrated Systems

		Produc	tion Rates (Each /	Month)				Procurement Le	adtime (Months)			
						Ini	tial			Reo	rder	
MFR #	MFR Name - Location	MSR	1-8-5	MAX	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	Carleton Technologies, Inc Orchard Park, NY	38.00	500.00	800.00	4	2	3	5	-	5	3	8
2	Raytheon - Indianapolis, IN	41.00	300.00	500.00	5	4	4	8	-	2	4	6
3	Telephonics - Farmingdale, NY	6.00	250.00	500.00	5	5	3	8	-	8	3	11
4	Westwind Corporation - Huntsville, AL	50.00	400.00	1,500.00	5	9	3	12	-	2	3	5
5	Various - TBD	25.00	160.00	250.00	6	4	6	10	2	4	6	10
6	Various - TBD	25.00	160.00	250.00	6	4	6	10	2	4	6	10
7	Various - TBD	25.00	160.00	250.00	6	4	6	10	2	4	6	10

#### Remarks:

MFR ID Number of 10 is not used.MFR ID Number of 11 is for Various contractors at various locations.

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 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

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<sup>&</sup>quot;A" in the Delivery Schedule indicated the Contract Award Date.

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA AA0050 - Air Traffic Control

**Prior** 

30: Other Support

Program Elements for Code B Items:

Other Related Program Elements: 0604633A

To

MDAP/MAIS Code(s):

ID Code (A=Service Ready, B=Not Service Ready) :

												I .
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	4	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	993.663	114.844	47.235	79.692	-	79.692	116.026	100.999	101.629	114.227	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	993.663	114.844	47.235	79.692	-	79.692	116.026	100.999	101.629	114.227	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	993.663	114.844	47.235	79.692	-	79.692	116.026	100.999	101.629	114.227	Continuing	Continuing
	(The following	g Resource Sum	mary rows are fo	r informational p	urposes only. Ti	he corresponding	budget request	s are documente	ed elsewhere.)			
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost	-	-	11,808.750	-	-	-	-	-	-	-	Continuing	Continuing

FY 2014 FY 2014

#### **Description:**

(Units in Thousands)

Tactical Air Traffic Control (ATC) equipment includes Air Traffic Navigation Integration and Coordination System (ATNAVICS), Tactical Airspace Integration System (TAIS) to include TAIS Airspace Workstation (AWS). Tactical Terminal Control System (TTCS), and Mobile Tower System (MOTS). ATNAVICS provides all weather instrument flight capabilities to include terminal, radar precision approach and landing services to all Army, Joint, and allied aircraft. ATNAVICS preplanned product improvements (P3I) include Mode 5/S (friend/foe identification), improved radio communications. ATNAVICS/TAIS Air Picture Integration to improve commander situational awareness, Information Assurance and computer and hardware upgrades. TAIS, a digitized battlefield automated system of the Army Mission Command System, performs enroute Air Traffic Services (ATS) and Airspace Command and Control (AC2) at brigade to theater commands. TAIS P3I includes Friendly Force Tracker (FFT) and Link 16/Tactical Digital Information Link (TADIL-J) upgrades that improve the reliability and usability of the air picture. FFT provides a fused air picture from multiple sensors. Link 16/TADIL-J upgrades ensure that TAIS remains compatible with the Department of Defense (DOD) standards for these data links and continues to receive joint air track data from the Link 16 network for situational awareness. TAIS AWS provides for AC2 planning and execution at the Brigade Combat Team (BCT) 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 AC2 and ATS capability for current requirements and Battle Command interfaces. TTCS provides enhanced ATS communications support to aviation assets conducting reconnaissance, maneuver, medical evacuation, logistics, intelligence operations across the battlefield and remote capability up to 1 kilometer. MOTS provides positive air traffic control and aircraft separation for both air and ground operations at tactical or remote landing sites. Its capabilities include weather information, secure and anti-iam communications across all required frequency bands and ranges, and precision location, ATNAVICS, TAIS, and MOTS serve as effective air traffic risk management tools for aviation safety during night, inclement weather, and combat operations, ATC Common Tactical Simulator can simulate a start to finish ATC scenario, meaning simulation at the airfield for take-off/landing under Visual Flight Rules, radar simulation for surveillance and precision approach, and flight following and airspace deconfliction. This will address the three primary tactical ATC systems (TAIS, ATNAVICS, MOTS). Fixed Base ATC requirements will be met through a vast array of new technology solutions resulting in highly reliable and safe ATC systems in accordance with the Joint DoD/Federal Aviation Administration (FAA) program to modernize the National Airspace System (NAS) and the FAA Next Gen program. This includes upgrading and automating the complete infrastructure by systematically replacing antiquated analog systems with installation of state of the art digital technology. These systems include DoD Advanced Automation Systems (DAAS), Digital Airport Surveillance Radar (DASR), Voice Recorder Replacement Program (VRRP), Army Airfield Automation System (AAAS), and Radio and Antenna replacement program. The Fixed Base Precision Approach Radar (FBPAR) is the Army's primary ground controlled precision approach capability to provide recovery operations for aircraft to fixed base airfields during adverse weather conditions. FBPAR P3I includes upgrading the computer capabilities, installing coolant upgrades and resolving obsolescence issues.

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 $<sup>^{\#}</sup>$  FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit P-40, Budget Item Justification Sheet: PB 20	14 Army			Date: April 2013
Appropriation / Budget Activity / Budget Sub Activit 2031A: Aircraft Procurement, Army / BA 04: Support Eq 30: Other Support	•	P-1 Line Item Nomenclatur AA0050 - Air Traffic Control	-	
ID Code (A=Service Ready, B=Not Service Ready):	Program Elements for Code B Ite	ems:	Other Related Pro	ogram Elements: 0604633A

MDAP/MAIS Code(s):

Second	dary Dis	tribution		FY 2012		FY 2013	3	FY 201 Base	-	FY 201 OCO	-	FY 20 <sup>-</sup> Tota		FY 20	)15	FY 20	016	FY 2	017	FY 2	2018
Army	Quantity				-		4		-		-		-		-		-		-		-
	Total Obl	igation Authority		114	.844	4	7.235		79.692		-		79.692		116.026		100.999		101.629		114.227
Ite	em Sche	dule		Р	rior Yea	rs		FY 2012	!		FY 2013		F	/ 2014 Ba	ase	FY	/ 2014 O	СО	FY	2014 To	tal
Item Nomeno	clature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
AA0050 - Air Traff	fic Control	P5		-	-	993.663	-	-	114.844	-	4	47.235	-	-	79.692	-	-	-	-	-	79.692
Total Gross/Weap System Cost	pon					993.663			114.844			47.235			79.692			-			79.692
Ite	em Sche	dule			FY 2015			FY 2016	;		FY 2017			FY 2018		To	Comple	ete		Total	
Item Nomeno	clature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
AA0050 - Air Traff	fic Control	P5		-	-	-	-	-	-	-	-	-	-	-	-		Continuing	1		Continuing	
Total Gross/Weap System Cost	pon					116.026			100.999			101.629			114.227		Continuing	9		Continuing	ı

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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

#### Justification:

FY 2014 Base procurement dollars in the amount of \$79.692 million provide for the acquisition of MOTS units, and support tactical and fixed base ATC systems and P3I to these systems. Funds for tactical ATC systems provide for upgrades, modifications, to TAIS, ATNAVICS, TTCS, and MOTS. ATNAVICS upgrades will address joint interoperability and networking capabilities, as well as Information Assurance requirements, improved radio communications, and integrating the TPX-57 to interrogate Mode 5/S equipped aircraft. These modifications will allow the ATNAVICS to transmit critical air picture information to TAIS. TAIS airspace management functions will be modified as web services that will be available throughout the tactical network via a common server to properly credentialed users. TAIS airspace management web services will support ATS and Airspace Integration Improvement Initiatives with expanded interfaces and collaboration capabilities. TTCS will integrate remote capability in accordance with the Operational Requirements Document specifications for force protection. TTCS funding will also support development of logistics products (Modification Work Orders, Technical Manuals, and drawing packages). 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. Funds will provide interim contractor support, engineering services and P3I for the procured MOTS units. Funds for the ATC Common Tactical Simulator will provide an ATC simulator for ATC training and continued operator proficiency. The simulator provides the capability to respond to voice commands and allows for capture and analysis of controller errors, and provides corrective actions to the operator. Navigational Control Aids include the AAAS and Radio/Antenna systems. These funds also procure radio and antenna systems, P3I for DAAS, AAAS installs, modifications of FBPAR systems, and fund the Army joint service capability required for the DoD/FAA mode

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Exhibit P-40, Budget Item Justification She	et: PB 2014 Army	Date: April 2013
Appropriation / Budget Activity / Budget Su 2031A: Aircraft Procurement, Army / BA 04: S 30: Other Support	upport Equipment and Facilities / BSA	
D Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Ite	tems: Other Related Program Elements: 0604633A
MDAP/MAIS Code(s):		
NOTE: FY13 quantity should be ZERO.		
In accordance with section 1815 of the FY 2008 National defense missions, domestic emergency responses and	al Defense Authorization Act P.L. 110-181), this providing military support to civil authorities.	s item is necessary for use by the active and reserve components of the Armed Forces for homeland

LI AA0050 - Air Traffic Control Army

Exhibit P-5, Cost Analysis: PB 2014 Army

Date: April 2013

**Appropriation / Budget Activity / Budget Sub Activity:** 2031A: Aircraft Procurement, Army / BA 04: Support

P-1 Line Item Nomenclature:

Item Nomenclature (Item Number - Item Name, DODIC):

2031A: Aircraft Procurement, Army / BA 04: Suppor Equipment and Facilities / BSA 30: Other Support AA0050 - Air Traffic Control

AA0050 - Air Traffic Control

Resource Summary	Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	To Complete	Total
Procurement Quantity (Units in Each)	-	-	4	-	-	-	-	-	-	-	Continuing	Continuing
Gross/Weapon System Cost (\$ in Millions)	993.663	114.844	47.235	79.692	-	79.692	-	-	-	-	Continuing	Continuing
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	993.663	114.844	47.235	79.692	-	79.692	-	-	-	-	Continuing	Continuing
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	993.663	114.844	47.235	79.692	-	79.692	-	-	-	-	Continuing	Continuing
	(The following	Resource Sumi	mary rows are fo	r informational p	urposes only. Th	ne corresponding	budget request	s are documente	d elsewhere.)	•	1	
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	11,808.750	-	-	-	-	-	-	-	Continuing	Continuing

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

		Al	l Prior Yea	rs		FY 2012			FY 2013		F`	/ 2014 Bas	se	F	/ 2014 OC	0	F	1 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID CD	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Flyaway Cost																			
Recurring Cost																			
Fixed Base Precision Approach Radar		-	-	90.291	-	-	2.120	-	=	0.584	-	-	1.792	-	-	-	-	-	1.79
DoD Advanced Automation System (DAAS)		-	-	79.003	-	-	10.381	-	-	5.322	-	-	3.165	-	-	-	-	-	3.16
Digital Airport Surveillance Radar(DASR)		-	-	83.706	-	-	1.032	-	-	1.389	-	-	-	-	-	-	-	-	-
Tactical Airspace Integration Sys (TAIS)		-	-	312.573	-	-	26.063	-	-	13.819	-	-	13.811	-	-	-	-	-	13.81
Air Traffic Navigation and Integration		-	-	342.012	-	-	21.613	-	-	14.476	-	-	12.403	-	-	-	-	-	12.40
Navigational Control Aids		-	-	14.285	-	-	10.861	-	-	1.877	-	-	1.384	-	-	-	-	-	1.38
Tactical Terminal Control System (TTCS)		-	-	40.247	-	-	2.295	-	-	1.225	-	-	5.430	-	-	-	-	-	5.43
Mobile Tower System (MOTS)		-	-	31.546	-	-	39.374	-	-	7.655	-	-	40.886	-	-	-	-	-	40.88
Common Tactical Simulator		-	-	-	-	-	1.105	-	-	0.888	-	-	0.821	-	-	-	-	-	0.82
Total Recurring Cost				993.663			114.844			47.235			79.692			-			79.69

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LI AA0050 - Air Traffic Control Army

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								UN	CLASS	IFIED									
Exhibit P-5, Cos	t Aı	nalysis:	PB 2014	l Army											Date: Ap	ril 2013			
Appropriation / 2031A: Aircraft P Equipment and F	<b>Buc</b>	Iget Acti urement,	<b>vity / Βι</b> Army / Ε	udget Si BA 04: S	Support	ity:	1		Nomenc raffic Co						Item Nor Name, D AA0050 -	ODIC):	,		er - Item
		Al	Prior Yea	ars		FY 2012			FY 2013		F	Y 2014 Bas	se	F	Y 2014 OC	0	F	Y 2014 Tot	al
Cost Elements († indicates the presence of a P-5A)	ID	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M )	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)
Total Flyaway Cost				993.663			114.844			47.235			79.692			-			79.69
Gross Weapon System Cost				993.663			114.844			47.235			79.692			-			79.69
			FY 2015			FY 2016			FY 2017		1	FY 2018		1	o Complet	'Δ		Total Cost	•
Cost Elements († indicates the presence of a P-5A)	ID	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost	Quantity (Each)	Total Cost (\$ M)	Unit Cost		Total Cost (\$ M)	Unit Cost		Total Cost (\$ M)	Unit Cost		Total Cost
Flyaway Cost																			
Recurring Cost	_			1	1		1										1		1
Fixed Base Precision Approach Radar		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DoD Advanced Automation System (DAAS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Digital Airport Surveillance Radar(DASR)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tactical Airspace Integration Sys (TAIS	)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Air Traffic Navigation and Integration		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Navigational Control Aids		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tactical Terminal Control System (TTCS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mobile Tower System (MOTS)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Common Tactical Simulator		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Recurring Cost				-			-			-			-			-			-
Total Flyaway Cost	-			-			-			-			-			-			-
Gross Weapon System Cost				-			-			-			-		Continuing			Continuing	
P-5 Remarks:																			_
Secondary Di	strib	ution	FY	2012	FY 2		FY 20 Bas	е	FY 2014 OCO	4	FY 2014 Total		FY 2015		FY 2016	F	Y 2017	FY	2018
Army Quantity Total Ob	igatio	n Authority		- 114.844		47.235		79.692		-		79.692		-	-		-		-

LI AA0050 - Air Traffic Control Army

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Exhibit P-5, Cost Analysis: PB 2014 Army		Date: April 2013
Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA 30: Other Support	P-1 Line Item Nomenclature: AA0050 - Air Traffic Control	Item Nomenclature (Item Number - Item Name, DODIC): AA0050 - Air Traffic Control

LI AA0050 - Air Traffic Control Army UNCLASSIFIED Page 6 of 6

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013

Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA AZ3300 - Industrial Facilities

30: Other Support

**Program Elements for Code B Items:** 

**Other Related Program Elements:** 

MDAP/MAIS Code(s):

ID Code (A=Service Ready, B=Not Service Ready) :

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	2,857.933	1.593	1.643	1.615	-	1.615	1.619	1.634	1.662	-	-	2,867.699
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	2,857.933	1.593	1.643	1.615	-	1.615	1.619	1.634	1.662	-	-	2,867.699
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	2,857.933	1.593	1.643	1.615	-	1.615	1.619	1.634	1.662	-	-	2,867.699
	(The following	g Resource Sum	mary rows are fo	r informational p	urposes only. Ti	he corresponding	g budget request	s are documente	ed elsewhere.)			
Initial Spares (\$ in Millions)	_	-	-	-	-	_	-	-	_	_	-	_

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)													
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-	
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-	
Gross/Weapon System Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-	

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### **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.

Item Schedule			Prior Years			FY 2012			FY 2013			FY 2014 Base			FY 2014 OCO			FY 2014 Total		
Item Nomenclature*	Exhibits	ID CD	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost	Unit Cost	Qty (Each)	Total Cost
PROVISION OF INDUSTRIAL FACILITIES	P40A		-	-	-	-	-	1.593	-	-	1.643	-	-	1.615	-	-	-	-	-	1.615
Total Gross/Weapon System Cost					2,857.933			1.593			1.643			1.615			-			1.615

\*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P48 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

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

Justification:

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

# **UNCLASSIFIED**

	UNCLA	SSIFIED					
Exhibit P-40, Budget Item Justification Sheet: Pl	B 2014 Army	P-1 Line Item Nomenclature:  A Z3300 - Industrial Facilities					
Appropriation / Budget Activity / Budget Sub Ac 2031A: Aircraft Procurement, Army / BA 04: Suppor 30: Other Support							
ID Code (A=Service Ready, B=Not Service Ready) :	Program Elements for Code B Ite	ems:	Other Related Program Elements:				
MDAP/MAIS Code(s):							
data from all types of Army aircraft. Also replaces the current data, used in aircraft navigation testing. At YTC, procures rep and on-board recorders and telemetry equipment that can me (optical tracking equipment) used for trajectory estimates for a	RTC navigation instrumentation with a molacement aircraft instrumentation for the ti et the environment and data speeds need aircraft fired munitions in the evaluation, into	dern system that continuously me me-stamping and on-board record ed for production base aviation pr egration and fault isolation of airc	, fuel flow meters, pressure transducers, etc.) used to collect flight test easures aircraft attitude, rates, and Global Positioning System position ding and telemetering of data from standard data buses and sensors; ograms. Funding will also provide upgraded Kineto Tracking Mounts raft weapons systems (allows remote control of mounts for safety during to evaluate laser target designators during aircraft weapons platform				
The majority of the instrumentation being upgraded or replace and safety and environmental hazards are minimized. Benefit			ion is required to ensure complete and accurate test data is collected drisks to Army Program Managers.				
All COMPO 1 Active							

LI AZ3300 - Industrial Facilities Army

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## UNCLASSIFIED

Exhibit P-40, Budget Item Justification Sheet: PB 2014 Army Date: April 2013

# Appropriation / Budget Activity / Budget Sub Activity:

P-1 Line Item Nomenclature:

2031A: Aircraft Procurement, Army / BA 04: Support Equipment and Facilities / BSA | A50100 - Launcher, 2.75 Rocket

30: Other Support

**Program Elements for Code B Items:** 

**Other Related Program Elements:** 

MDAP/MAIS Code(s):

ID Code (A=Service Ready, B=Not Service Ready) :

	Prior			FY 2014	FY 2014	FY 2014					То	
Resource Summary	Years	FY 2012	FY 2013 <sup>#</sup>	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total
Procurement Quantity (Units in Each)	-	449	67	392	-	392	396	414	426	579	-	2,723
Gross/Weapon System Cost (\$ in Millions)	76.480	2.878	0.516	2.877	-	2.877	2.958	3.058	3.129	4.000	-	95.896
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	76.480	2.878	0.516	2.877	-	2.877	2.958	3.058	3.129	4.000	-	95.896
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	76.480	2.878	0.516	2.877	-	2.877	2.958	3.058	3.129	4.000	-	95.896
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (Units in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (Units in Thousands)	-	6.410	7.701	7.339	ı	7.339	7.470	7.386	7.345	6.908	-	0.035

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## **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, OH-58D 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.

Seco	ondary Distribution	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018
Army	Quantity	449	67	392	-	392	396	414	426	579
	Total Obligation Authority	2.878	0.516	2.877	-	2.877	2.958	3.058	3.129	4.000

#### Justification:

FY2014 procurement dollars in the amount of \$2.877 million supports the M260 7-tube analog launcher for OH-58D Kiowa Warrior and AH-6J helicopters and the 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.

"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."

UNCLASSIFIED LI A50100 - Launcher, 2.75 Rocket Army

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P-1 Line #35

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit MYP-1, Multiyear Procurement Criteria	Date: April 2013
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft	P-1 Item Nomenclature CH-47 Helicopter (A05101)

## 1. Multiyear Procurement Description:

This package represents the multiyear procurement of 34 New Build CH-47F aircraft (A05008) and 121 SLEP aircraft (A05105) for a total of 155 aircraft on a five-year multiyear contract over the period of FY13-17 (MYP 2). These exhibits are intended to satisfy congressional notification requirements. This proposed multiyear procurement is the second multi-year procurement for the CH-47F Program. The Principal Deputy Under Secretary of Defense for Acquisition, Technology, and Logistics certified this multiyear contract on March 1, 2012 and the projected award date is May 15, 2013 pending the enactment of the Appropriations Act or CR anomaly.

### 2. Benefit to the Government:

## a. Substantial Savings:

(1) Based on a comparison of the OSD CAPE single year contract estimate and the negotiated settlement with Boeing on December 10, 2012 for one five-year multiyear contract, there is a cost avoidance of approximately \$810 million. (2) Where possible, alternate sources have been found for parts in order to encourage competition and reduce costs. Alternate suppliers are interested in providing bids and making significant investments only as a result of the long-term stability provided by the multiyear. Some components have minimum buy quantities that may not be met under single year procurements, driving unit costs artificially high to compensate for not meeting minimum levels. Multiyear procurement quantities will allow the prime contractor and subcontractors at all tiers to exceed minimum order quantities and capture savings on these components. Typically suppliers will provide price discounts to lock in business. Given a five-year contract, suppliers will have greater total business and greater stability. Therefore, they will be capable of finding innovative processes and be able to justify capital investments necessary to reduce costs. Some of these cost reductions will be passed on to the customer in the form of price reductions. In addition, to these types of process innovations and capital investments, competition is expected to be greater based on larger purchase volumes. (3) Administrative costs are reduced to the prime contractor subcontracts at all tiers since there is only one proposal, negotiation, and purchase order instead of a string of five single year procurement actions. Since some suppliers include proposal preparation and negotiation as a direct charge to the purchase order, there will be a dollar for dollar reduction and the savings will not get lost in overhead rates. Administrative reduction is realized in production planning.

## b. Stability of Requirement:

The requirement for the CH-47F program was approved by the Joint Requirement Oversight Council (JROC) in 2004.

#### c. Stability of Funding:

The CH-47F program is fully funded over the FYDP. Funds have remained very stable.

#### d. Stable Configuration:

The CH-47F system design is stable. Seven production lots, totaling more than 228 aircraft, have been accepted by the Government. Some limited changes to the existing production configuration are required to address component obsolescence issues, improve aircraft producibility, and efficiently and effectively utilize advancing technologies to improve aircraft safety and survivability. One of these efforts is a change to incorporate the Alternate Communications (ALT COMMS) Suite, which consists of 2 multi-mode, ARC-231 radios. The ARC-231 radio is already in production, and replaces some of the existing aircraft radios that are obsolete. Another effort is the production incorporation of Department of the Army (DA) mandated Mission Equipment Packages (MEPs). Engineering for these MEPs is complete and they are currently installed post production, prior to aircraft delivery to CH-47F Units. Technical risk for this program is considered low.

## e. Realistic Cost Estimates:

The procurement cost estimate for the CH-47F program is realistic. An Army Cost Position (ACP) was completed in 2004. The Office of the Deputy Assistant Secretary of the Army for Cost and Economics determined the methodologies sound and model outputs reasonable. The Acquisition Program Baseline (APB) was reset in April 2010. The current multiyear procurement cost estimate is based on negotiated settlement memorandum dated December 10, 2012 while OSD CAPE analysis is used in the annual procurement estimate. The contract will be a Firm Fixed Price (FFP) contract with no unfunded cancellation ceiling for Lots 11 through Lot 15 and initial spares.

A05101 Item No. 13 Page 1 of 21 Exhibit MYP-1 CH-47 Helicopter Multiyear Procurement Criteria

Exhibit MYP-1, Multiyear Procurement Criteria		Date: April 2013
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft	P-1 Item Nomenclature CH-47 Helicopter (A05101)	

#### f. National Security:

Current Defense Planning Guidance advocates the development of a portfolio of capabilities that lessen the likelihood of operational or technological surprise and allow the swift and decisive defeat of adversaries. The CH-47F, the Army's primary cargo helicopter, was developed specifically to provide more effective operational support and a significant technological improvement over its predecessor. In addition, the Chinook helicopter has proven itself to be uniquely capable of operating in high altitude environments. such as Afghanistan.

#### 3. Source of Savings \$ in Millions

Inflation 74 Vendor Procurement 371 Manufacturing 122 Design/Engineering Tool Design Support Equipment Other 243 810 Total

## 4. Advantages of the MYP:

A multiyear contract provides substantial cost avoidance of \$810 million over a single year approach. Quantifiable benefits include \$2 million in avoidance of annual contract negotiation and project management costs. There are also intangible benefits, including maintaining the industrial base necessary to meet the production requirements of current and future systems; along with helping to maintain the capability to produce additional systems to satisfy domestic and FMS demand, which has increased as the result of the CH-47's demonstrated performance, both in the Overseas Continuing Operations and international disaster relief.

#### 5. Impact on Defense Industrial Base:

Implementation of this proposed MYP will yield a favorable impact on the industrial base. The stability afforded by the use of a multiyear procurement will allow the prime contractor to enter into long-term agreements with suppliers which provide substantial cost savings. Significant competition at the subcontractor level is expected as a result of the proposed five-year FY13-17 multiyear contracting strategy. The first tier subcontractor plan will be structured to encourage competition at the second tier supplier level, indicating full utilization of small and disadvantaged businesses. While significant supplier downsizing and consolidation have occurred due to a general reduction in spending, multiyear contracting will produce acceptable supplier pricing due to the stable business base. Production Capacity: The production capacity for the Prime Contractor is 6 aircraft per month. The plan for this MYP is to operate at this rate (includes the CH-47F Recapitalization program and international sales), and the costs reflect this plan.

6. Multiyear Procurement Summary	Annual Contracts	MultiYear Contract
Quantity	155	155
Total Contract Price	4224	3414
Cancellation Ceiling (highest point)		
Funded		
Unfunded		
\$ Cost Avoidance Over Annual		810

A05101 Item No. 13 Page 2 of 21 Exhibit MYP-1 CH-47 Helicopter

xhibit MYP-1, Multiyear Procurement Criteria	Date: April 2013	Date: April 2013			
propriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft	P-1 Item Nomenclature CH-47 Helicopter (A05101)	1	-		
% Cost Avoidance Over Annual	19				

A05101 CH-47 Helicopter Item No. 13 Page 3 of 21

Exhibit MYP-1 Multiyear Procurement Criteria

Exhibit MYP-2, Total Program Fund	ling Plan						Date: April	2013			
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft			P	P-1 Item Nomenclature CH-47 Helicopter (A05101)							
\$ in Millions	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total	
Procurement Quantity	28	30	39	27						124	
Annual Procurement											
Gross Cost	1040	1079	1426	1008						4553	
Less PY Adv Procurement	90	108	114	116						428	
Net Procurement (= P-1)	950	971	1312	892						4125	
Plus CY Adv Procurement	108	114	116	39						377	
Weapon System Cost	1058	1085	1428	931						4502	
Multiyear Procurement											
Gross Cost (P-1)	855	915	1174	855						3799	
Less PY Adv Procurement	83	98	102	102						385	
Net Procurement (= P-1)	802	817	1072	753						3444	
Advanced Procurement											
For 2014											
For 2015	98									98	
For 2016		102								102	
For 2017			102							102	
For 2018											
Plus CY Adv Procurement	98	102	102							302	
Weapon System Cost	900	919	1174	753						3746	
Multiyear Savings (\$)	158	166	254	178						756	
Multiyear Savings (%) (Total Only)	15	15	18	19						67	
Cancellation Ceiling - Funded											
Cancellation Ceiling - Unfunded											
Outlays											
Annual	662	816	1008	1145	963	557	315	158	93	5717	
Multiyear	584	704	860	956	797	460	260	130	75	4826	
Savings	78	112	148	189	166	97	55	28	18	891	

Savings 78 112 148 189 166 97 55 28 18 18 The first year of this Multiyear contract, FY13, with a gross funding cost of \$1,131 million for Multiyear procurement and \$1,275 million for annual procurement is not displayed above.

#### Exhibit MYP-3, Contract Funding Plan Date: April 2013 Appropriation / Budget Activity / Serial No: P-1 Item Nomenclature Aircraft Procurement, Army/1/Aircraft CH-47 Helicopter (A05101) \$ in Millions FY 2016 FY 2014 FY 2015 FY 2017 FY 2018 FY 2019 FY 2020 FY 2021 FY 2022 Total **Procurement Quantity Annual Procurement** Gross Cost Less PY Adv Procurement Net Procurement (= P-1) Plus CY Adv Procurement Contract Price **Multivear Procurement** Gross Cost (P-1) Less PY Adv Procurement Net Procurement (= P-1) Advanced Procurement For 2014 For 2015 For 2016 For 2017 For 2018 Plus CY Adv Procurement Contract Price Multiyear Savings (\$) Multiyear Savings (%) (Total Only) Cancellation Ceiling - Funded Cancellation Ceiling - Unfunded Outlays Annual Multiyear Savings

The first year of this Multiyear contract, FY13, with a contract price of \$699 million and associated savings of \$166 million is not displayed above. The savings shown on the MYP1 exhibit show the total savings that span FY13-FY17.

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Exhibit MYP-4, Present Value Analysis		Date: April 2013								
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft				P-1 Item Nomenclature CH-47 Helicopter (A05101)						
\$ in Millions	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
Annual Proposal			•	•	•			•	•	·•
Then Year Cost	452	577	735	848	696	405	228	116	65	4122
Constant Year Cost	429	542	680	775	630	367	206	104	57	3790
Present Value	425	536	670	763	617	357	200	101	56	3725
Multiyear Procurement										
Then Year Cost	369	469	595	685	559	326	183	93	52	3331
Constant Year Cost	351	440	550	625	506	295	164	84	47	3062
Present Value	348	435	543	616	497	287	160	80	43	3009
Difference										
Then Year Cost	83	108	140	163	137	79	45	23	13	791
Constant Year Cost	78	102	130	150	124	72	42	20	10	728
PresentValue	77	101	127	147	120	70	40	21	13	716

Constant Year Dollars are Fiscal Year 2012. Outlay rates reflect OMB Circular No. A-94; January 3, 2012. Discount rate of .7 percent was applied to the constant dollar outlays, and assumes uniform outlays throughout the fiscal year (midyear factors). FY13, the first year of the multiyear contract, is not displayed above.

Item No. 13 Page 6 of 21 Exhibit MYP-4
Present Value Analysis

Exhibit MYP-1, Multiyear Procurement Criteria		Date: April 2013
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft	P-1 Item Nomenclature CH-47 NEW BUILD (A05008)	

#### 1. Multivear Procurement Description:

This package represents the multiyear procurement of 34 New Build CH-47F aircraft on a five-year multiyear contract over the period of FY13-17 (MYP 2). These exhibits are intended to satisfy congressional notification requirements. This proposed multi-year procurement is the second multi-year procurement for the CH-47F Program. The CH-47 New Build SSN A05008, along with the CH-47 SLEP SSN A05105, is a subset of SSN A05101. Together, the New Build and SLEP multiyear procurement will have a combined cost avoidance of \$810 million, FY13-17. This proposed multiyear procurement is the second multi-year procurement for the CH-47F Program. The Principal Deputy Under Secretary of Defense for Acquisition, Technology, and Logistics certified this multiyear contract on March 1, 2012 and the projected award date is May 15, 2013 pending the enactment of the Appropriations Act or CR anomaly.

## 2. Benefit to the Government:

#### a. Substantial Savings:

(1) Based on a comparison of the OSD CAPE single year contract estimate and the negotiated settlement with Boeing on December 10, 2012 for one five-year multiyear contract, there is a cost avoidance of approximately \$810 million. (2) Where possible, alternate sources have been found for parts in order to encourage competition and reduce costs. Alternate suppliers are interested in providing bids and making significant investments only as a result of the long-term stability provided by the multiyear. Some components have minimum buy quantities that may not be met under single year procurements, driving unit costs artificially high to compensate for not meeting minimum levels. Multiyear procurement quantities will allow the prime contractor and subcontractors at all tiers to exceed minimum order quantities and capture savings on these components. Typically suppliers will provide price discounts to lock in business. Given a five-year contract, suppliers will have greater total business and greater stability. Therefore, they will be capable of finding innovative processes and be able to justify capital investments necessary to reduce costs. Some of these cost reductions will be passed on to the customer in the form of price reductions. In addition, to these types of process innovations and capital investments, competition is expected to be greater based on larger purchase volumes. (3) Administrative costs are reduced to the prime contractor subcontracts at all tiers since there is only one proposal, negotiation, and purchase order instead of a string of five single year procurement actions. Since some suppliers include proposal preparation and negotiation as a direct charge to the purchase order, there will be a dollar for dollar reduction and the savings will not get lost in overhead rates. Administrative reduction is realized in production planning.

#### b. Stability of Requirement:

The requirement for the CH-47F program was approved by the Joint Requirement Oversight Council (JROC) in 2004.

#### c. Stability of Funding:

The CH-47F program is fully funded over the FYDP. Funds have remained very stable.

#### d. Stable Configuration:

The CH-47F system design is stable. Seven production lots, totaling more than 228 aircraft, have been accepted by the Government. Some limited changes to the existing production configuration are required to address component obsolescence issues, improve aircraft producibility, and efficiently and effectively utilize advancing technologies to improve aircraft safety and survivability. One of these efforts is a change to incorporate the Alternate Communications (ALT COMMS) Suite, which consists of 2 multi-mode, ARC-231 radios. The ARC-231 radio is already in production, and replaces some of the existing aircraft radios that are obsolete. Another effort is the production incorporation of Department of the Army (DA) mandated Mission Equipment Packages (MEPs). Engineering for these MEPs is complete and they are currently installed post production, prior to aircraft delivery to CH-47F Units. Technical risk for this program is considered low.

#### e. Realistic Cost Estimates:

The procurement cost estimate for the CH-47F program is realistic. An Army Cost Position (ACP) was completed in 2004. The Office of the Deputy Assistant Secretary of the Army for Cost and Economics determined the methodologies sound and model outputs reasonable. The Acquisition Program Baseline (APB) was reset in April 2010. The current procurement cost estimate is based on the negotiated settlement memorandum dated December 10, 2012 while OSD CAPE analysis is used in the annual procurement estimate. The

A05101 (A05008)
CH-47 NEW BUILD

Item No. 13 Page 7 of 21 Exhibit MYP-1
Multiyear Procurement Criteria

Exhibit MYP-1, Multiyear Procurement Criteria	Date: April 2013	
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft	P-1 Item Nomenclature CH-47 NEW BUILD (A05008)	

contract will be a Firm Fixed Price (FFP) contract with no unfunded cancellation ceiling for Lots 11 through Lot 15 and initial spares.

## f. National Security:

Current Defense Planning Guidance advocates the development of a portfolio of capabilities that lessen the likelihood of operational or technological surprise and allow the swift and decisive defeat of adversaries. The CH-47F, the Army's primary cargo helicopter, was developed specifically to provide more effective operational support and a significant technological improvement over its predecessor. In addition, the Chinook helicopter has proven itself to be uniquely capable of operating in high altitude environments, such as Afghanistan.

3. Source of Savings	\$ in Millions
Inflation	16
Vendor Procurement	94
Manufacturing	30
Design/Engineering	
Tool Design	
Support Equipment	
Other	60
Total	200

## 4. Advantages of the MYP:

A multiyear contract provides substantial cost avoidance of \$200 million over a single year approach. Quantifiable benefits include \$2 million in avoidance of annual contract negotiation and project management costs. There are also intangible benefits, including maintaining the industrial base necessary to meet the production requirements of current and future systems; along with helping to maintain the capability to produce additional systems to satisfy domestic and FMS demand, which has increased as the result of the CH-47's demonstrated performance, both in the Overseas Continuing Operations and international disaster relief. The CH-47 New Build SSN A05008, along with the CH-47 SLEP SSN A05105, is a subset of ASN A05101. Together, the New Build and SLEP multiyear procurement will have a combined cost avoidance of \$810 million, FY13-17.

## 5. Impact on Defense Industrial Base:

Implementation of this proposed MYP will yield a favorable impact on the industrial base. The stability afforded by the use of a multiyear procurement will allow the prime contractor to enter into long-term agreements with suppliers which provide substantial cost savings. Significant competition at the subcontractor level is expected as a result of the proposed five-year FY13-17 multiyear contracting strategy. The first tier subcontractor plan will be structured to encourage competition at the second tier supplier level, indicating full utilization of small and disadvantaged businesses. While significant supplier downsizing and consolidation have occurred due to a general reduction in spending, multiyear contracting will produce acceptable supplier pricing due to the stable business base. Production Capacity: The production capacity for the Prime Contractor is 6 aircraft per month. The plan for this MYP is to operate at this rate (includes the CH-47F Recapitalization program and international sales), and the costs reflect this plan.

6. Multiyear Procurement Summary	Annual Contracts	MultiYear Contract
Quantity	34	34
Total Contract Price	1042	842
Cancellation Ceiling (highest point)		

A05101 (A05008)

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Exhibit MYP-1

Multiyear Procurement Criteria

Exhibit MYP-1, Multiyear Procurement Criteria		Date: April 2013
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft	P-1 Item Nomenclature CH-47 NEW BUILD (A05008)	
Funded	<u> </u>	
Unfunded		
\$ Cost Avoidance Over Annual	200	
% Cost Avoidance Over Annual	19	

Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft					P-1 Item Nomenclature CH-47 NEW BUILD (A05008)						
\$ in Millions	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total	
Procurement Quantity	6	4	12							22	
Annual Procurement											
Gross Cost	262	178	486							926	
Less PY Adv Procurement											
Net Procurement (= P-1)	262	178	486							926	
Plus CY Adv Procurement											
Weapon System Cost	262	178	486							926	
Multiyear Procurement											
Gross Cost (P-1)	221	147	397							765	
Less PY Adv Procurement											
Net Procurement (= P-1)	221	147	397							765	
Advanced Procurement											
For 2014											
For 2015											
For 2016											
For 2017											
For 2018											
Plus CY Adv Procurement											
Weapon System Cost	221	147	397							765	
Multiyear Savings (\$)	41	31	89							161	
Multiyear Savings (%) (Total Only)	16	17	18							51	
Cancellation Ceiling - Funded											
Cancellation Ceiling - Unfunded											
Outlays											
Annual	268	244	267	311	172	111	48	28	9	1458	
Multiyear	234	210	226	258	143	91	40	23	7	1232	
Savings	34	34	41	53	29	20	8	5	2	226	

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Exhibit MYP-2, Total Program Funding I	Plan						Date: April 2	2013		
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft				P-1 Item Nome CH-47	nclature NEW BUILD (A	05008)	1			
\$ in Millions	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
				FY 2017	FY 2018	FY 2019				Total

Item No. 13 Page 11 of 21 Exhibit MYP-2
Total Program Funding Plan

Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft					P-1 Item Nomenclature CH-47 NEW BUILD (A05008)						
\$ in Millions	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total	
Procurement Quantity	6	4	12	112017	112010	112017	112020	112021	112022	22	
Annual Procurement											
Gross Cost	184	125	374							683	
Less PY Adv Procurement											
Net Procurement (= P-1)	184	125	374							683	
Plus CY Adv Procurement											
Contract Price	184	125	374							683	
Multiyear Procurement											
Gross Cost (P-1)	149	101	302							552	
Less PY Adv Procurement											
Net Procurement (= P-1)	149	101	302							552	
Advanced Procurement											
For 2014											
For 2015											
For 2016											
For 2017											
For 2018											
Plus CY Adv Procurement											
Contract Price	149	101	302							552	
Multiyear Savings (\$)	35	24	72							131	
Multiyear Savings (%) (Total Only)	19	19	19							57	
Cancellation Ceiling - Funded											
Cancellation Ceiling - Unfunded											
Outlays											
Annual	164	159	182	227	125	81	36	21	7	1002	
Multiyear	132	129	147	184	101	66	29	17	5	810	
Savings	32	30	35	43	24	15	7	4	2	192	

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Exhibit MYP-3, Contract Funding Plan							Date: April	2013		
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft				P-1 Item Nome CH-4	enclature 7 NEW BUILD (A	05008)	l			
\$ in Millions	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
The first year of this Multiyear contract, FY13, with a Noshows the total savings that span FY13-FY17.	ew Build contrac	ct price of \$290	0 million and	d associated savi	ngs of \$69 mil	lion is not disp	blayed above.	The savings	shown on the l	MYP1 exhib

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Exhibit MYP-4, Present Value Analysis							Date: April 2013				
		P			05008)	•					
FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total		
164	159	182	227	125	81	36	21	7	1002		
156	150	169	208	114	74	33	19	6	929		
154	148	166	205	111	72	32	19	9	916		
132	129	147	184	101	66	29	17	5	810		
126	121	136	168	92	60	26	16	6	751		
125	120	134	166	90	58	26	15	6	740		
32	30	35	43	24	15	7	4	2	192		
30	29	33	40	22	14	7	3		178		
29	28	32	39	21	14	6	4	3	176		
	164 156 154 132 126 125 32 30	FY 2014         FY 2015           164         159           156         150           154         148           132         129           126         121           125         120           32         30           30         29	FY 2014 FY 2015 FY 2016    164	P-1 Item Nome CH-47  FY 2014 FY 2015 FY 2016 FY 2017  164 159 182 227  156 150 169 208  154 148 166 205  132 129 147 184  126 121 136 168  125 120 134 166  32 30 35 43  30 29 33 40	P-1 Item Nomenclature CH-47 NEW BUILD (A FY 2014 FY 2015 FY 2016 FY 2017 FY 2018    164	P-1 Item Nomenclature CH-47 NEW BUILD (A05008)     FY 2014	P-1   Item Nomenclature   CH-47 NEW BUILD (A05008)   FY 2014   FY 2015   FY 2016   FY 2017   FY 2018   FY 2019   FY 2020     164	P-1   Item Nomenclature   CH-47 NEW BUILD (A05008)   FY 2014   FY 2015   FY 2016   FY 2017   FY 2018   FY 2019   FY 2020   FY 2021     164	P-1   Item Nomenclature   CH-47 NEW BUILD (A05008)     FY 2014		

Constant Year Dollars are Fiscal Year 2012. Outlay rates reflect OMB Circular No. A-94; January 3, 2012. Discount rate of .7 percent was applied to the constant dollar outlays, and assumes uniform outlays throughout the fiscal year (midyear factors). FY13, the first year of the multiyear contact, is not displayed above.

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Exhibit MYP-1, Multiyear Procurement Criteria		Oate: April 2013
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft	P-1 Item Nomenclature CH-47 SLEP (A05105)	

#### 1. Multivear Procurement Description:

This package represents the multiyear procurement of 121 SLEP aircraft (A05105) on a five-year multiyear contract over the period of FY13-17 (MYP 2). These exhibits are intended to satisfy congressional notification requirements. This proposed multiyear procurement is the second multi-year procurement for the CH-47F Program. The CH-47 SLEP SSN A05105, along with the CH-47 New Build SSN A05008, is a subset of ASN A05101. Together, the New Build and SLEP multiyear procurement will have a combined cost avoidance of \$810M, FY13-17. The Principal Deputy Under Secretary of Defense for Acquisition, Technology, and Logistics certified this multiyear contract on March 1, 2012 and the projected award date is May 15, 2013 pending the enactment of the Appropriations Act or CR anomaly.

#### 2. Benefit to the Government:

#### a. Substantial Savings:

(1) Based on a comparison of the OSD CAPE single year contract estimate and the negotiated settlement with Boeing on December 10, 2012 for one five-year multiyear contract, there is a cost avoidance of approximately \$810 million. (2) Where possible, alternate sources have been found for parts in order to encourage competition and reduce costs. Alternate suppliers are interested in providing bids and making significant investments only as a result of the long-term stability provided by the multiyear. Some components have minimum buy quantities that may not be met under single year procurements, driving unit costs artificially high to compensate for not meeting minimum levels. Multiyear procurement quantities will allow the prime contractor and subcontractors at all tiers to exceed minimum order quantities and capture savings on these components. Typically suppliers will provide price discounts to lock in business. Given a five-year contract, suppliers will have greater total business and greater stability. Therefore, they will be capable of finding innovative processes and be able to justify capital investments necessary to reduce costs. Some of these cost reductions will be passed on to the customer in the form of price reductions. In addition, to these types of process innovations and capital investments, competition is expected to be greater based on larger purchase volumes. (3) Administrative costs are reduced to the prime contractor subcontracts at all tiers since there is only one proposal, negotiation, and purchase order instead of a string of five single year procurement actions. Since some suppliers include proposal preparation and negotiation as a direct charge to the purchase order, there will be a dollar for dollar reduction and the savings will not get lost in overhead rates. Administrative reduction is realized in production planning.

## b. Stability of Requirement:

The requirement for the CH-47F program was approved by the Joint Requirement Oversight Council (JROC) in 2004.

#### c. Stability of Funding:

The CH-47F program is fully funded over the FYDP. Funds have remained very stable.

#### d. Stable Configuration:

The CH-47F system design is stable. Seven production lots, totaling more than 228 aircraft, have been accepted by the Government. Some limited changes to the existing production configuration are required to address component obsolescence issues, improve aircraft producibility, and efficiently and effectively utilize advancing technologies to improve aircraft safety and survivability. One of these efforts is a change to incorporate the Alternate Communications (ALT COMMS) Suite, which consists of 2 multi-mode, ARC-231 radios. The ARC-231 radio is already in production, and replaces some of the existing aircraft radios that are obsolete. Another effort is the production incorporation of Department of the Army (DA) mandated Mission Equipment Packages (MEPs). Engineering for these MEPs is complete and they are currently installed post production, prior to aircraft delivery to CH-47F Units. Technical risk for this program is considered low.

## e. Realistic Cost Estimates:

The procurement cost estimate for the CH-47F program is realistic. An Army Cost Position (ACP) was completed in 2004. The Office of the Deputy Assistant Secretary of the Army for Cost and Economics determined the methodologies sound and model outputs reasonable. The Acquisition Program Baseline (APB) was reset in April 2010. The current procurement cost estimate is based on negotiated settlement memorandum dated December 10, 2012 while OSD CAPE analysis is used in the annual procurement estimate. The contract will be a Firm Fixed Price (FFP) contract with no unfunded cancellation ceiling for Lots 11 through Lot 15 and initial spares.

A05101 (A05105)

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Exhibit MYP-1
Multiyear Procurement Criteria

Exhibit MYP-1, Multiyear Procurement Criteria		Date: April 2013
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft	P-1 Item Nomenclature CH-47 SLEP (A05105)	

## f. National Security:

Current Defense Planning Guidance advocates the development of a portfolio of capabilities that lessen the likelihood of operational or technological surprise and allow the swift and decisive defeat of adversaries. The CH-47F, the Army's primary cargo helicopter, was developed specifically to provide more effective operational support and a significant technological improvement over its predecessor. In addition, the Chinook helicopter has proven itself to be uniquely capable of operating in high altitude environments, such as Afghanistan.

3. Source of Savings	\$ in Millions
Inflation	58
Vendor Procurement	277
Manufacturing	92
Design/Engineering	
Tool Design	
Support Equipment	
Other	183
Total	610

#### 4. Advantages of the MYP:

A multiyear contract provides substantial cost avoidance of \$610 million over a single year approach. Quantifiable benefits include \$2 million in avoidance of annual contract negotiation and project management costs. There are also intangible benefits, including maintaining the industrial base necessary to meet the production requirements of current and future systems; along with helping to maintain the capability to produce additional systems to satisfy domestic and Foreign Military Sales (FMS) demand, which has increased as the result of the CH-47's demonstrated performance, both in the Overseas Continuing Operations and international disaster relief. The CH-47 SLEP SSN A05105, along with the CH-47 New Build SSN A05008, is a subset of ASN A05101. Together, the New Build and SLEP multivear procurement will have a combined cost avoidance of \$810 million, FY13-17.

#### 5. Impact on Defense Industrial Base:

Implementation of this proposed MYP will yield a favorable impact on the industrial base. The stability afforded by the use of a multiyear procurement will allow the prime contractor to enter into long-term agreements with suppliers which provide substantial cost savings. Significant competition at the subcontractor level is expected as a result of the proposed five-year FY13-17 multiyear contracting strategy. The first tier subcontractor plan will be structured to encourage competition at the second tier supplier level, indicating full utilization of small and disadvantaged businesses. While significant supplier downsizing and consolidation have occurred due to a general reduction in spending, multiyear contracting will produce acceptable supplier pricing due to the stable business base. Production Capacity: The production capacity for the Prime Contractor is 6 aircraft per month. The plan for this MYP is to operate at this rate (includes the CH-47F Recapitalization program and international sales), and the costs reflect this plan.

6. Multiyear Procurement Summary	<b>Annual Contracts</b>	MultiYear Contract	
Quantity	121	121	
Total Contract Price	3182	2572	
Cancellation Ceiling (highest point)			
Funded			

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Exhibit MYP-1

Multiyear Procurement Criteria

Exhibit MYP-1, Multiyear Procurement Criteria		Date: April 2013					
opropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft	P-1 Item Nomenclature CH-47 SLEP (A05105)						
Unfunded	·						
\$ Cost Avoidance Over Annual	610						
% Cost Avoidance Over Annual	19						

Exhibit MYP-2, Total Program Funding Plan					Date: April 2013								
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft					P-1 Item Nomenclature CH-47 SLEP (A05105)								
\$ in Millions	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total			
Procurement Quantity	22	26	27	27						102			
Annual Procurement													
Gross Cost	778	901	940	1008						3627			
Less PY Adv Procurement	90	108	114	116						428			
Net Procurement (= P-1)	688	793	826	892						3199			
Plus CY Adv Procurement	108	114	116	39						377			
Weapon System Cost	796	907	942	931						3576			
Multiyear Procurement													
Gross Cost (P-1)	664	768	777	855						3064			
Less PY Adv Procurement	83	98	102	102						385			
Net Procurement (= P-1)	581	670	675	753						2679			
Advanced Procurement													
For 2014													
For 2015	98									98			
For 2016		102								102			
For 2017			102							102			
For 2018													
Plus CY Adv Procurement	98	102	102							302			
Weapon System Cost	679	772	777	753						2981			
Multiyear Savings (\$)	117	135	165	178						595			
Multiyear Savings (%) (Total Only)	15	15	18	19						67			
Cancellation Ceiling - Funded													
Cancellation Ceiling - Unfunded													
Outlays													
Annual	394	572	741	834	791	446	267	130	84	4259			
Multiyear	350	494	634	698	654	369	220	107	68	3594			

Savings \$ Millions

The first year of this Multiyear contract, FY13 with a gross funding cost of \$606 million for Multiyear procurement and \$677 million for annual procurement is not displayed above.

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Exhibit MYP-3, Contract Funding Plan					Date: April 2013							
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft				P-1 Item Nomenclature CH-47 SLEP (A05105)								
\$ in Millions	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total		
Procurement Quantity	22	26	27	27						102		
Annual Procurement												
Gross Cost	559	678	719	755						2711		
Less PY Adv Procurement	90	108	114	116						428		
Net Procurement (= P-1)	469	570	605	639						2283		
Plus CY Adv Procurement	108	114	116							338		
Contract Price	577	684	721	639						2621		
Multiyear Procurement												
Gross Cost (P-1)	452	548	581	610						2191		
Less PY Adv Procurement	83	98	102	102						385		
Net Procurement (= P-1)	369	450	479	508						1806		
Advanced Procurement												
For 2014												
For 2015	98									98		
For 2016		102								102		
For 2017			102							102		
For 2018												
Plus CY Adv Procurement	98	102	102							302		
Contract Price	467	552	581	508						2108		
Multiyear Savings (\$)	110	132	140	131						513		
Multiyear Savings (%) (Total Only)	19	19	19	21						78		
Cancellation Ceiling - Funded												
Cancellation Ceiling - Unfunded												
Outlays												
Annual	288	418	553	621	571	324	192	95	58	3120		
Multiyear	237	340	448	501	458	260	154	76	47	2521		
Savings	51	78	105	120	113	64	38	19	11	599		

\$ Millions

The first year of this Multiyear contract, FY13, with a ReNew contract price of \$409 million and associated savings of \$97 million is not displayed above. The savings shown on the MYP1 exhibit

Exhibit MYP-3, Contract Funding Plan							Date: April 2	2013		
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft				P-1 Item Nome CH-47	nclature SLEP (A05105)		_			
\$ in Millions	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
show the total savings that span FY13-FY17.										

Exhibit MYP-4, Present Value Analysis		Date: April 2013								
Appropriation / Budget Activity / Serial No: Aircraft Procurement, Army/1/Aircraft				P-1 Item Nomenclature CH-47 SLEP (A05105)						
\$ in Millions	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
Annual Proposal			<u>,                                    </u>	<u>,                                    </u>						
Then Year Cost	288	418	553	621	571	324	192	95	58	3120
Constant Year Cost	273	392	511	567	516	293	173	85	51	2861
Present Value	271	388	504	558	506	285	168	82	47	2809
Multiyear Procurement										
Then Year Cost	237	340	448	501	458	260	154	76	47	2521
Constant Year Cost	225	319	414	457	414	235	138	68	41	2311
Present Value	223	315	409	450	407	229	134	65	37	2269
Difference										
Then Year Cost	51	78	105	120	113	64	38	19	11	599
Constant Year Cost	48	73	97	110	102	58	35	17	10	550
PresentValue	48	73	95	108	99	56	34	17	10	540

Constant Year Dollars are Fiscal Year 2012. Outlay rates reflect OMB Circular No. A-94; January 3, 2012. Discount rate of .7 percent was applied to the constant dollar outlays, and assumes uniform outlays throughout the fiscal year (midyear factors). FY13, the first year of the multiyear contract, is not displayed above.

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